

MIMIC-III, a freely accessible critical care database

Scientific Data

3, 160035

DOI: [10.1038/sdata.2016.35](https://doi.org/10.1038/sdata.2016.35)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Clinical named entity recognition: Challenges and opportunities. , 2016, , .		26
2	Iterative unified clustering in big data. , 2016, , .		0
3	Using electronic health record collected clinical variables to predict medical intensive care unit mortality. Annals of Medicine and Surgery, 2016, 11, 52-57.	0.5	60
5	Association of do-not-resuscitate order and survival in patients with severe sepsis and/or septic shock. Intensive Care Medicine, 2017, 43, 715-717.	3.9	9
6	Respiratory rate estimation from the photoplethysmogram via joint sparse signal reconstruction and spectra fusion. Biomedical Signal Processing and Control, 2017, 35, 1-7.	3.5	20
7	Big Data Analyses in Health and Opportunities for Research in Radiology. Seminars in Musculoskeletal Radiology, 2017, 21, 032-036.	0.4	7
8	De-identification of patient notes with recurrent neural networks. Journal of the American Medical Informatics Association: JAMIA, 2017, 24, 596-606.	2.2	231
9	Association between fluid intake and mortality in critically ill patients with negative fluid balance: a retrospective cohort study. Critical Care, 2017, 21, 104.	2.5	22
10	Discriminative and Distinct Phenotyping by Constrained Tensor Factorization. Scientific Reports, 2017, 7, 1114.	1.6	21
11	Hypoxic hepatitis " its biochemical profile, causes and risk factors of mortality in critically-ill patients: A cohort study of 565 patients. Journal of Critical Care, 2017, 41, 9-15.	1.0	35
12	A Mortality Study for ICU Patients Using Bursty Medical Events. , 2017, 2017, 1533-1540.		4
13	A path to precision in the ICU. Critical Care, 2017, 21, 79.	2.5	77
14	Deep learning for pharmacovigilance: recurrent neural network architectures for labeling adverse drug reactions in Twitter posts. Journal of the American Medical Informatics Association: JAMIA, 2017, 24, 813-821.	2.2	156
15	Selecting relevant features from the electronic health record for clinical code prediction. Journal of Biomedical Informatics, 2017, 74, 92-103.	2.5	31
16	Interpretable Predictions of Clinical Outcomes with An Attention-based Recurrent Neural Network. , 2017, 2017, 233-240.		64
17	Discovering Quantitative Temporal Functional Dependencies on Clinical Data. , 2017, , .		6
18	Early hospital mortality prediction of intensive care unit patients using an ensemble learning approach. International Journal of Medical Informatics, 2017, 108, 185-195.	1.6	138
19	Early sepsis detection in critical care patients using multiscale blood pressure and heart rate dynamics. Journal of Electrocardiology, 2017, 50, 739-743.	0.4	111

#	ARTICLE	IF	CITATIONS
20	Improving Pattern Detection in Healthcare Process Mining Using an Interval-Based Event Selection Method. Lecture Notes in Business Information Processing, 2017, , 88-105.	0.8	11
21	Approximate Temporal Functional Dependencies on Clinical Data. , 2017, , .		0
22	Prediction of early unplanned intensive care unit readmission in a UK tertiary care hospital: a cross-sectional machine learning approach. BMJ Open, 2017, 7, e017199.	0.8	95
23	Recurrent neural networks for classifying relations in clinical notes. Journal of Biomedical Informatics, 2017, 72, 85-95.	2.5	119
24	Prescription extraction using CRFs and word embeddings. Journal of Biomedical Informatics, 2017, 72, 60-66.	2.5	39
25	A New Temporal Abstraction for Health Diagnosis Prediction using Deep Recurrent Networks. , 2017, , .		0
26	Machine learning landscapes and predictions for patient outcomes. Royal Society Open Science, 2017, 4, 170175.	1.1	7
27	Resolving the Bias in Electronic Medical Records. , 2017, , .		22
28	Association between elevated central venous pressure and outcomes in critically ill patients. Annals of Intensive Care, 2017, 7, 83.	2.2	49
29	LEAP. , 2017, , .		93
30	Recurrent neural networks with specialized word embeddings for health-domain named-entity recognition. Journal of Biomedical Informatics, 2017, 76, 102-109.	2.5	101
31	Evidence appraisal: a scoping review, conceptual framework, and research agenda. Journal of the American Medical Informatics Association: JAMIA, 2017, 24, 1192-1203.	2.2	17
32	CCS Coding of Discharge Diagnoses via Deep Neural Networks. , 2017, , .		4
33	Survival Topic Models for Predicting Outcomes for Trauma Patients. , 2017, , .		2
34	The power of capturing and using information at the point of care. Healthcare, 2017, 5, 86-88.	0.6	7
35	Predicting medical nonadherence using natural language processing. , 2017, , .		2
36	Towards enhanced hierarchical attention networks in ICD-9 tagging of clinical notes. , 2017, , .		0
37	A Practical Approach to Machine Learning for Clinical Decision Support. Springer Proceedings in Mathematics and Statistics, 2017, , 111-120.	0.1	3

#	ARTICLE	IF	CITATIONS
38	Semi-Automatic De-identification of Hospital Discharge Summaries with Natural Language Processing: A Case-Study of Performance and Real-World Usability. , 2017, , .		1
39	A weighted similarity measure approach to predict intensive care unit transfers. , 2017, , .		0
40	DIR â€” A semantic information resource for healthcare datasets. , 2017, , .		2
41	A multi-task machine learning approach for comorbid patient prioritization. , 2017, , .		2
42	Predicting Hospital Length of Stay Using Neural Networks on MIMIC III Data. , 2017, , .		36
43	Enabling query processing across heterogeneous data models: A survey. , 2017, , .		63
44	Short-term prediction of low kidney function in ICU patients. , 2017, , .		0
45	Joint learning of representations of medical concepts and words from EHR data. , 2017, 2017, 764-769.		11
46	Automated clinical diagnosis: The role of content in various sections of a clinical document. , 2017, , .		8
47	Deep Learning Solutions to Computational Phenotyping in Health Care. , 2017, , .		21
48	AKI-CLIF-SOFA: a novel prognostic score for critically ill cirrhotic patients with acute kidney injury. Aging, 2017, 9, 286-296.	1.4	11
49	Distant Supervision with Transductive Learning for Adverse Drug Reaction Identification from Electronic Medical Records. Journal of Healthcare Engineering, 2017, 2017, 1-21.	1.1	9
50	Performance Comparison of Systemic Inflammatory Response Syndrome with Logistic Regression Models to Predict Sepsis in Neonates. Children, 2017, 4, 111.	0.6	6
51	Using Transfer Learning for Improved Mortality Prediction in a Data-Scarce Hospital Setting. Biomedical Informatics Insights, 2017, 9, 117822261771299.	4.6	39
52	Methods for enhancing the reproducibility of biomedical research findings using electronic health records. BioData Mining, 2017, 10, 31.	2.2	20
53	iNICU â€” Integrated Neonatal Care Unit: Capturing Neonatal Journey in an Intelligent Data Way. Journal of Medical Systems, 2017, 41, 132.	2.2	26
54	Hierarchical Genetic Algorithm and Fuzzy Radial Basis Function Networks for Factors Influencing Hospital Length of Stay Outliers. Healthcare Informatics Research, 2017, 23, 226.	1.0	8
55	System for Collecting Biosignal Data from Multiple Patient Monitoring Systems. Healthcare Informatics Research, 2017, 23, 333.	1.0	13

#	ARTICLE	IF	CITATIONS
56	Development of a novel score for the prediction of hospital mortality in patients with severe sepsis: the use of electronic healthcare records with LASSO regression. <i>Oncotarget</i> , 2017, 8, 49637-49645.	0.8	52
57	Predicting central line-associated bloodstream infections and mortality using supervised machine learning. <i>Journal of Critical Care</i> , 2018, 45, 156-162.	1.0	47
58	Target-Controlled Continuous Infusion for Antibiotic Dosing: Proof-of-Principle in an In-silico Vancomycin Trial in Intensive Care Unit Patients. <i>Clinical Pharmacokinetics</i> , 2018, 57, 1435-1447.	1.6	20
59	Critical Care Health Informatics Collaborative (CCHIC): Data, tools and methods for reproducible research: A multi-centre UK intensive care database. <i>International Journal of Medical Informatics</i> , 2018, 112, 82-89.	1.6	41
60	Identifying and characterizing highly similar notes in big clinical note datasets. <i>Journal of Biomedical Informatics</i> , 2018, 82, 63-69.	2.5	20
61	Detecting Adverse Drug Reactions on Twitter with Convolutional Neural Networks and Word Embedding Features. <i>Journal of Healthcare Informatics Research</i> , 2018, 2, 25-43.	5.3	7
62	Using artificial intelligence to predict prolonged mechanical ventilation and tracheostomy placement. <i>Journal of Surgical Research</i> , 2018, 228, 179-187.	0.8	60
63	Recurrent Neural Networks for Multivariate Time Series with Missing Values. <i>Scientific Reports</i> , 2018, 8, 6085.	1.6	1,036
64	First Get the Data, Then Do the Science!*. <i>Pediatric Critical Care Medicine</i> , 2018, 19, 382-383.	0.2	9
65	Inclusion of Unstructured Clinical Text Improves Early Prediction of Death or Prolonged ICU Stay*. <i>Critical Care Medicine</i> , 2018, 46, 1125-1132.	0.4	61
66	Mortality prediction in intensive care units (ICUs) using a deep rule-based fuzzy classifier. <i>Journal of Biomedical Informatics</i> , 2018, 79, 48-59.	2.5	66
67	Does Fluid Type and Amount Affect Kidney Function in Critical Illness?. <i>Critical Care Clinics</i> , 2018, 34, 279-298.	1.0	6
68	Assessing team effectiveness and affective learning in a datathon. <i>International Journal of Medical Informatics</i> , 2018, 112, 40-44.	1.6	13
69	Deep EHR: A Survey of Recent Advances in Deep Learning Techniques for Electronic Health Record (EHR) Analysis. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2018, 22, 1589-1604.	3.9	782
70	Discovering health-care processes using DeciClareMiner. <i>Health Systems</i> , 2018, 7, 195-211.	0.9	5
71	Multicentre validation of a sepsis prediction algorithm using only vital sign data in the emergency department, general ward and ICU. <i>BMJ Open</i> , 2018, 8, e017833.	0.8	223
72	SemEHR: A general-purpose semantic search system to surface semantic data from clinical notes for tailored care, trial recruitment, and clinical research*. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2018, 25, 530-537.	2.2	82
73	Creating a High-Frequency Electronic Database in the PICU: The Perpetual Patient*. <i>Pediatric Critical Care Medicine</i> , 2018, 19, e189-e198.	0.2	25

#	ARTICLE	IF	CITATIONS
74	Patient ranking with temporally annotated data. Journal of Biomedical Informatics, 2018, 78, 43-53.	2.5	9
75	An Interpretable Machine Learning Model for Accurate Prediction of Sepsis in the ICU. Critical Care Medicine, 2018, 46, 547-553.	0.4	494
76	Effect of Boarding on Mortality in ICUs. Critical Care Medicine, 2018, 46, 525-531.	0.4	23
77	Segment convolutional neural networks (Seg-CNNs) for classifying relations in clinical notes. Journal of the American Medical Informatics Association: JAMIA, 2018, 25, 93-98.	2.2	62
78	Data discovery with DATS: exemplar adoptions and lessons learned. Journal of the American Medical Informatics Association: JAMIA, 2018, 25, 13-16.	2.2	5
79	A Comparative Analysis of Sepsis Identification Methods in an Electronic Database*. Critical Care Medicine, 2018, 46, 494-499.	0.4	126
80	Using multiple sentiment dimensions of nursing notes to predict mortality in the intensive care unit. , 2018, , .		6
81	Mining productive-periodic frequent patterns in tele-health systems. Journal of Network and Computer Applications, 2018, 115, 33-47.	5.8	16
82	Predicting adverse hemodynamic events in critically ill patients. Current Opinion in Critical Care, 2018, 24, 196-203.	1.6	12
84	Linking temporal medical records using non-protected health information data. Statistical Methods in Medical Research, 2018, 27, 3304-3324.	0.7	5
85	Clinical Evaluation of Sepsis-1 and Sepsis-3 in the ICU. Chest, 2018, 153, 1169-1176.	0.4	30
86	The MIMIC Code Repository: enabling reproducibility in critical care research. Journal of the American Medical Informatics Association: JAMIA, 2018, 25, 32-39.	2.2	249
87	Nutritional Status Plays a Crucial Role in the Mortality of Critically Ill Patients with Acute Renal Failure. Journal of Investigative Medicine, 2018, 66, 309-318.	0.7	6
88	Mapping Patient Trajectories using Longitudinal Extraction and Deep Learning in the MIMIC-III Critical Care Database. , 2018, , .		22
89	Severity of Illness Scores May Misclassify Critically Ill Obese Patients*. Critical Care Medicine, 2018, 46, 394-400.	0.4	19
90	Global Model Interpretation Via Recursive Partitioning. , 2018, , .		35
91	The BigDAWG polystore system. , 2018, , 279-289.		1
92	Where we have failed. , 2018, , 155-164.		0

#	ARTICLE	IF	CITATIONS
93	The implementation of POSTGRES. , 2018, , 519-559.		3
94	OLTP through the looking glass, and what we found there. , 2018, , 409-439.		9
95	â€œFlying blindâ€or â€œin plain sightâ€?. Journal of Emergency and Critical Care Medicine, 2018, 2, 98-98.	0.7	0
96	The end of an architectural era: it's time for a complete rewrite. , 2018, , 463-489.		19
97	SynthNotes: A Generator Framework for High-volume, High-fidelity Synthetic Mental Health Notes. , 2018, , .		6
98	Stockwell Transform Detector For Photoplethysmography Signal Segmentation. , 2018, , .		2
99	Deep Holistic Representation Learning from EHR. , 2018, , .		3
100	Stacked Denoising Autoencoders for Mortality Risk Prediction Using Imbalanced Clinical Data. , 2018, , .		13
101	An Automated System for Identifying Alcohol Use Status from Clinical Text. , 2018, , .		2
102	Finding Similar Patient Subpopulations in the ICU Using Laboratory Test Ordering Patterns. , 2018, , .		3
103	Disease Inference with Symptom Extraction and Bidirectional Recurrent Neural Network. , 2018, , .		7
104	Arteriosclerosis Diagnosis Based on Support Vector Machine. , 2018, , .		0
105	International normalized ratio on admission predicts the 90â€day mortality of critically ill patients undergoing endarterectomy. Experimental and Therapeutic Medicine, 2019, 17, 323-331.	0.8	4
106	Predicting Mortality in the Surgical Intensive Care Unit Using Artificial Intelligence and Natural Language Processing of Physician Documentation. American Surgeon, 2018, 84, 1190-1194.	0.4	15
107	The later Ingres years. , 2018, , 191-203.		0
108	In-memory, horizontal, and transactional: the H-store OLTP DBMS project. , 2018, , 245-251.		0
109	Convolutional Gated Recurrent Units for Medical Relation Classification. , 2018, , .		11
110	Classification of radiology reports by modality and anatomy: A comparative study. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
111	Research contributions of Mike Stonebraker: an overview. , 2018, , 181-189.		0
112	The commercial Ingres codeline. , 2018, , 301-310.		0
113	The BigDAWG codeline. , 2018, , 367-376.		0
114	How to start a company in five (not so) easy steps. , 2018, , 117-128.		1
115	Mike Stonebraker speaks out: an interview. , 2018, , 57-83.		0
116	Application of clustering methods for detecting critical acute coronary syndrome patients. Procedia Computer Science, 2018, 136, 370-379.	1.2	3
117	Efficient Enriching of Synthesized Relational Patient Data with Time Series Data. Procedia Computer Science, 2018, 141, 531-538.	1.2	7
118	Forecasting Mortality Risk for Patients Admitted to Intensive Care Units Using Machine Learning. Procedia Computer Science, 2018, 140, 306-313.	1.2	23
119	Merkle-Tree Based Approach for Ensuring Integrity of Electronic Medical Records. , 2018, , .		9
120	Early Prediction of Acute Kidney Injury in Critical Care Setting Using Clinical Notes. , 2018, 2018, 683-686.		34
121	Aurum: a story about research taste. , 2018, , 387-391.		0
122	Optimal intensive care outcome prediction over time using machine learning. PLoS ONE, 2018, 13, e0206862.	1.1	69
123	Predictive Value of Prothrombin Time for All-cause Mortality in Acute Myocardial Infarction Patients*. , 2018, 2018, 5366-5369.		3
124	Impact of Mean Arterial Pressure Fluctuation on Mortality in Critically Ill Patients. Critical Care Medicine, 2018, 46, e1167-e1174.	0.4	13
125	A Deep Deterministic Policy Gradient Approach to Medication Dosing and Surveillance in the ICU. , 2018, 2018, 4927-4931.		16
126	Identification of Disease States for Trauma Patients using Commonly Available Hospital Data. , 2018, , .		0
127	Machine learning in critical care: state-of-the-art and a sepsis case study. BioMedical Engineering OnLine, 2018, 17, 135.	1.3	33
128	Prediction of ICU Readmissions Using Data at Patient Discharge. , 2018, 2018, 4932-4935.		17

#	ARTICLE	IF	CITATIONS
129	HeteroMed. , 2018, , .		32
130	Assessment of Intensive Care Unit Laboratory Values That Differ From Reference Ranges and Association With Patient Mortality and Length of Stay. JAMA Network Open, 2018, 1, e184521.	2.8	21
131	Developing a healthcare dataset information resource (DIR) based on Semantic Web. BMC Medical Genomics, 2018, 11, 102.	0.7	3
132	Early Prediction of Sepsis in EMR Records Using Traditional ML Techniques and Deep Learning LSTM Networks. , 2018, 2018, 4038-4041.		35
133	A method for harmonization of clinical abbreviation and acronym sense inventories. Journal of Biomedical Informatics, 2018, 88, 62-69.	2.5	10
134	The relational database management systems genealogy. , 2018, , 173-179.		1
135	Where good ideas come from and how to exploit them. , 2018, , 145-153.		1
136	C-store: a column-oriented DBMS. , 2018, , 491-518.		27
137	First Brazilian datathon in critical care. Revista Brasileira De Terapia Intensiva, 2018, 30, 6-8.	0.1	5
138	Validation of Prediction Models for Critical Care Outcomes Using Natural Language Processing of Electronic Health Record Data. JAMA Network Open, 2018, 1, e185097.	2.8	72
139	Leadership and advocacy. , 2018, , 85-92.		0
140	Identification of subclasses of sepsis that showed different clinical outcomes and responses to amount of fluid resuscitation: a latent profile analysis. Critical Care, 2018, 22, 347.	2.5	72
141	Dynamic Illness Severity Prediction via Multi-task RNNs for Intensive Care Unit. , 2018, , .		24
142	Neonatal Sepsis Prediction Model for Resource-Poor Developing Countries. , 2018, , .		4
143	Prevalence and Nature of Financial Considerations Documented in Narrative Clinical Records in Intensive Care Units. JAMA Network Open, 2018, 1, e184178.	2.8	6
144	EHR phenotyping via jointly embedding medical concepts and words into a unified vector space. BMC Medical Informatics and Decision Making, 2018, 18, 123.	1.5	28
145	Improving counterfactual reasoning with kernelised dynamic mixing models. PLoS ONE, 2018, 13, e0205839.	1.1	3
146	Mean arterial pressure and mortality in patients with distributive shock: a retrospective analysis of the MIMIC-III database. Annals of Intensive Care, 2018, 8, 107.	2.2	89

#	ARTICLE	IF	CITATIONS
147	Mechanical power of ventilation is associated with mortality in critically ill patients: an analysis of patients in two observational cohorts. <i>Intensive Care Medicine</i> , 2018, 44, 1914-1922.	3.9	323
148	C-LACE2: computational risk assessment tool for 30-day post hospital discharge mortality. <i>Health and Technology</i> , 2018, 8, 341-351.	2.1	3
149	Red blood cell distribution width predicts long-term outcomes in sepsis patients admitted to the intensive care unit. <i>Clinica Chimica Acta</i> , 2018, 487, 112-116.	0.5	41
150	Machine learning for real-time prediction of complications in critical care: a retrospective study. <i>Lancet Respiratory Medicine</i> , 2018, 6, 905-914.	5.2	226
151	A Model-Free Comorbidities-Based Events Prediction in ICU Unit. <i>Communications in Computer and Information Science</i> , 2018, , 98-109.	0.4	0
152	ICD-9 Tagging of Clinical Notes Using Topical Word Embedding. , 2018, , .		5
153	Can Photoplethysmography Replace Arterial Blood Pressure in the Assessment of Blood Pressure?. <i>Journal of Clinical Medicine</i> , 2018, 7, 316.	1.0	84
154	Towards automated clinical coding. <i>International Journal of Medical Informatics</i> , 2018, 120, 50-61.	1.6	23
155	Effectiveness of sodium bicarbonate infusion on mortality in septic patients with metabolic acidosis. <i>Intensive Care Medicine</i> , 2018, 44, 1888-1895.	3.9	75
156	Automated ICD-9-CM medical coding of diabetic patient's clinical reports. , 2018, , .		2
157	Comparison of 2 Natural Language Processing Methods for Identification of Bleeding Among Critically Ill Patients. <i>JAMA Network Open</i> , 2018, 1, e183451.	2.8	36
158	Using clinical Natural Language Processing for health outcomes research: Overview and actionable suggestions for future advances. <i>Journal of Biomedical Informatics</i> , 2018, 88, 11-19.	2.5	139
159	Serum anion gap on admission predicts intensive care unit mortality in patients with aortic aneurysm. <i>Experimental and Therapeutic Medicine</i> , 2018, 16, 1766-1777.	0.8	25
160	Fuzzy Modeling for Predicting Patient Survival Rate in ICU with AKI. , 2018, , .		2
161	Photoplethysmography and Deep Learning: Enhancing Hypertension Risk Stratification. <i>Biosensors</i> , 2018, 8, 101.	2.3	115
162	Predictive modeling in urgent care: a comparative study of machine learning approaches. <i>JAMIA Open</i> , 2018, 1, 87-98.	1.0	38
163	The Artificial Intelligence Clinician learns optimal treatment strategies for sepsis in intensive care. <i>Nature Medicine</i> , 2018, 24, 1716-1720.	15.2	629
164	Automatic Diagnosis With Efficient Medical Case Searching Based on Evolving Graphs. <i>IEEE Access</i> , 2018, 6, 53307-53318.	2.6	16

#	ARTICLE	IF	CITATIONS
165	Machine Intelligence in Healthcare and Medical Cyber Physical Systems: A Survey. IEEE Access, 2018, 6, 46419-46494.	2.6	48
166	Hypertension Assessment via ECG and PPG Signals: An Evaluation Using MIMIC Database. Diagnostics, 2018, 8, 65.	1.3	94
167	Health information technology: promise and progress. Health Systems, 2018, 7, 161-165.	0.9	2
168	A comparison of word embeddings for the biomedical natural language processing. Journal of Biomedical Informatics, 2018, 87, 12-20.	2.5	259
169	Serum uric acid on admission cannot predict long-term outcome of critically ill patients: a retrospective cohort study. Therapeutics and Clinical Risk Management, 2018, Volume 14, 1347-1359.	0.9	4
170	Prompt admission to intensive care is associated with improved survival in patients with severe sepsis and/or septic shock. Journal of International Medical Research, 2018, 46, 4071-4081.	0.4	8
171	Transthoracic echocardiography and mortality in sepsis: analysis of the MIMIC-III database. Intensive Care Medicine, 2018, 44, 884-892.	3.9	145
172	Efficient In-Database Patient Similarity Analysis for Personalized Medical Decision Support Systems. Big Data Research, 2018, 13, 52-64.	2.6	32
173	Predicting Intensive Care Unit Readmission with Machine Learning Using Electronic Health Record Data. Annals of the American Thoracic Society, 2018, 15, 846-853.	1.5	110
174	Does health informatics have a replication crisis?. Journal of the American Medical Informatics Association: JAMIA, 2018, 25, 963-968.	2.2	80
175	Using OPC and HL7 Standards to Incorporate an Industrial Big Data Historian in a Health IT Environment. Journal of Medical Systems, 2018, 42, 122.	2.2	5
176	Diagnostic assessment of a deep learning system for detecting atrial fibrillation in pulse waveforms. Heart, 2018, 104, 1921-1928.	1.2	81
177	Improving Quality of Observational Streaming Medical Data by Using Long Short-Term Memory Networks (LSTMs). , 2018, , .		4
178	Machine Learning-based Prediction of ICU Patient Mortality at Time of Admission. , 2018, , .		16
179	Sentiment in nursing notes as an indicator of out-of-hospital mortality in intensive care patients. PLoS ONE, 2018, 13, e0198687.	1.1	46
180	tableone: An open source Python package for producing summary statistics for research papers. JAMIA Open, 2018, 1, 26-31.	1.0	108
181	Opportunities and challenges in developing deep learning models using electronic health records data: a systematic review. Journal of the American Medical Informatics Association: JAMIA, 2018, 25, 1419-1428.	2.2	465
182	Boosting Clinical Decision-making: Machine Learning for Intensive Care Unit Discharge. Annals of the American Thoracic Society, 2018, 15, 804-805.	1.5	7

#	ARTICLE	IF	CITATIONS
183	Open data informatics and data repurposing for IBD. Nature Reviews Gastroenterology and Hepatology, 2018, 15, 715-716.	8.2	7
184	Predictive Models of Sepsis in Adult ICU Patients. , 2018, , .		9
185	Association mapping in biomedical time series via statistically significant shapelet mining. Bioinformatics, 2018, 34, i438-i446.	1.8	17
186	A Treatment Engine by Predicting Next-Period Prescriptions. , 2018, , .		31
187	CogStack - experiences of deploying integrated information retrieval and extraction services in a large National Health Service Foundation Trust hospital. BMC Medical Informatics and Decision Making, 2018, 18, 47.	1.5	86
188	Improving Clinical Named Entity Recognition with Global Neural Attention. Lecture Notes in Computer Science, 2018, , 264-279.	1.0	14
189	Predicting and Understanding Unexpected Respiratory Decompensation in Critical Care Using Sparse and Heterogeneous Clinical Data. , 2018, , .		7
190	Patient representation learning and interpretable evaluation using clinical notes. Journal of Biomedical Informatics, 2018, 84, 103-113.	2.5	29
191	RAIM. , 2018, , .		74
192	High Serum Iron level is Associated with Increased Mortality in Patients with Sepsis. Scientific Reports, 2018, 8, 11072.	1.6	42
193	One-year mortality after recovery from critical illness: A retrospective cohort study. PLoS ONE, 2018, 13, e0197226.	1.1	13
194	A Hybrid Method for Normalization of Medical Concepts in Clinical Narrative. , 2018, , .		3
195	Pattern Similarity in Time Interval Sequences. , 2018, , .		1
196	Data collection and research with MargheritaTre. Physiological Measurement, 2018, 39, 084004.	1.2	5
197	Predictive accuracy of serum total calcium for both critically high and critically low ionized calcium in critical illness. Journal of Clinical Laboratory Analysis, 2018, 32, e22589.	0.9	12
198	Early hospital mortality prediction using vital signals. Smart Health, 2018, 9-10, 265-274.	2.0	46
199	Time-related association between fluid balance and mortality in sepsis patients: interaction between fluid balance and haemodynamics. Scientific Reports, 2018, 8, 10390.	1.6	15
200	Scalable and accurate deep learning with electronic health records. Npj Digital Medicine, 2018, 1, 18.	5.7	1,440

#	ARTICLE	IF	CITATIONS
201	External validation and improvement of LiFe score as a prediction tool in critically ill cirrhosis patients. <i>Hepatology Research</i> , 2018, 48, 905-913.	1.8	7
202	Recognizing Diseases from Physiological Time Series Data Using Probabilistic Model. <i>Lecture Notes in Computer Science</i> , 2018, , 388-399.	1.0	0
203	High 28-day mortality in critically ill patients with sepsis and concomitant active cancer. <i>Journal of International Medical Research</i> , 2018, 46, 5030-5039.	0.4	15
204	Identify Susceptible Locations in Medical Records via Adversarial Attacks on Deep Predictive Models. , 2018, , .		36
205	Prediction of Acute Kidney Injury With a Machine Learning Algorithm Using Electronic Health Record Data. <i>Canadian Journal of Kidney Health and Disease</i> , 2018, 5, 205435811877632.	0.6	115
206	Learning Tasks for Multitask Learning. , 2018, , .		37
207	Supervised Reinforcement Learning with Recurrent Neural Network for Dynamic Treatment Recommendation. , 2018, , .		112
208	Development of a personalized diagnostic model for kidney stone disease tailored to acute care by integrating large clinical, demographics and laboratory data: the diagnostic acute care algorithm - kidney stones (DACA-KS). <i>BMC Medical Informatics and Decision Making</i> , 2018, 18, 72.	1.5	19
209	Novel Approach to Predict Hospital Readmissions Using Feature Selection from Unstructured Data with Class Imbalance. <i>Big Data Research</i> , 2018, 13, 65-75.	2.6	16
210	Benchmarking deep learning models on large healthcare datasets. <i>Journal of Biomedical Informatics</i> , 2018, 83, 112-134.	2.5	240
211	Modeling asynchronous event sequences with RNNs. <i>Journal of Biomedical Informatics</i> , 2018, 83, 167-177.	2.5	39
212	A Supervised Learning Approach for ICU Mortality Prediction Based on Unstructured Electrocardiogram Text Reports. <i>Lecture Notes in Computer Science</i> , 2018, , 126-134.	1.0	12
213	Personalized Prescription for Comorbidity. <i>Lecture Notes in Computer Science</i> , 2018, , 3-19.	1.0	10
214	Dual Control Memory Augmented Neural Networks for Treatment Recommendations. <i>Lecture Notes in Computer Science</i> , 2018, , 273-284.	1.0	4
215	Automatic ICD-9 coding via deep transfer learning. <i>Neurocomputing</i> , 2019, 324, 43-50.	3.5	79
216	Massive datasets and machine learning for computational biomedicine: trends and challenges. <i>Annals of Operations Research</i> , 2019, 276, 5-34.	2.6	26
217	The challenge of local consent requirements for global critical care databases. <i>Intensive Care Medicine</i> , 2019, 45, 246-248.	3.9	15
218	Visual Progression Analysis of Event Sequence Data. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2019, 25, 417-426.	2.9	46

#	ARTICLE	IF	CITATIONS
219	Risk of health morbidity for the uninsured: 10-year evidence from a large hospital center in Boston, Massachusetts. <i>International Journal for Quality in Health Care</i> , 2019, 31, 325-330.	0.9	2
221	A deep learning approach for length of stay prediction in clinical settings from medical records. , 2019, , .		5
222	Towards precision critical care management of blood pressure in hemorrhagic stroke patients using dynamic linear models. <i>PLoS ONE</i> , 2019, 14, e0220283.	1.1	0
223	Blood Pressure Estimation from Photoplethysmogram Using a Spectro-Temporal Deep Neural Network. <i>Sensors</i> , 2019, 19, 3420.	2.1	200
224	Admission serum sodium and potassium levels predict survival among critically ill patients with acute kidney injury: a cohort study. <i>BMC Nephrology</i> , 2019, 20, 311.	0.8	39
225	Publishing Sensitive Trajectory Data Under Enhanced l-Diversity Model. , 2019, , .		11
226	The “inconvenient truth” about AI in healthcare. <i>Npj Digital Medicine</i> , 2019, 2, 77.	5.7	216
227	AI in Health: State of the Art, Challenges, and Future Directions. <i>Yearbook of Medical Informatics</i> , 2019, 28, 016-026.	0.8	138
228	ISeeU: Visually interpretable deep learning for mortality prediction inside the ICU. <i>Journal of Biomedical Informatics</i> , 2019, 98, 103269.	2.5	54
229	Interpretable Patient Trajectories from Temporally Annotated Health Records. , 2019, , .		0
230	Use of machine learning to analyse routinely collected intensive care unit data: a systematic review. <i>Critical Care</i> , 2019, 23, 284.	2.5	128
231	Development and implementation of a dynamically updated big data intelligence platform from electronic health records for nasopharyngeal carcinoma research. <i>British Journal of Radiology</i> , 2019, 92, 20190255.	1.0	15
232	ChronoCorrelator: Enriching Events with Time Series. <i>Computer Graphics Forum</i> , 2019, 38, 387-399.	1.8	5
233	Machine Learning in future intensive care “Classification of stochastic Petri Nets via continuous-time Markov chains. , 2019, , 259-273.		1
234	Analysis and prediction of unplanned intensive care unit readmission using recurrent neural networks with long short-term memory. <i>PLoS ONE</i> , 2019, 14, e0218942.	1.1	103
235	External Validation of a “Black-Box” Clinical Predictive Model in Nephrology: Can Interpretability Methods Help Illuminate Performance Differences?. <i>Lecture Notes in Computer Science</i> , 2019, , 191-201.	1.0	2
236	Privacy-Preserving Generative Deep Neural Networks Support Clinical Data Sharing. <i>Circulation: Cardiovascular Quality and Outcomes</i> , 2019, 12, e005122.	0.9	172
237	Clinical trial cohort selection based on multi-level rule-based natural language processing system. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2019, 26, 1218-1226.	2.2	33

#	ARTICLE	IF	CITATIONS
238	Multimorbidity states associated with higher mortality rates in organ dysfunction and sepsis: a data-driven analysis in critical care. <i>Critical Care</i> , 2019, 23, 247.	2.5	43
239	Noise Detection in Electrocardiogram Signals for Intensive Care Unit Patients. <i>IEEE Access</i> , 2019, 7, 88357-88368.	2.6	36
240	Multi-label clinical document classification: Impact of label-density. <i>Expert Systems With Applications</i> , 2019, 138, 112835.	4.4	15
241	Artificial intelligence and machine learning in clinical development: a translational perspective. <i>Npj Digital Medicine</i> , 2019, 2, 69.	5.7	282
242	An Interpretable Disease Onset Predictive Model Using Crossover Attention Mechanism From Electronic Health Records. <i>IEEE Access</i> , 2019, 7, 134236-134244.	2.6	17
243	Novel Method of Atrial Fibrillation Case Identification and Burden Estimation Using the MIMIC-III Electronic Health Data Set. <i>Journal of Intensive Care Medicine</i> , 2019, 34, 851-857.	1.3	20
244	VS-GRU: A Variable Sensitive Gated Recurrent Neural Network for Multivariate Time Series with Massive Missing Values. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3041.	1.3	21
245	Temporal Probabilistic Profiles for Sepsis Prediction in the ICU. , 2019, , .		30
246	HYBRID MORTALITY PREDICTION USING MULTIPLE SOURCE SYSTEMS. <i>International Journal on Cybernetics & Informatics</i> , 2019, 8, 01-08.	0.1	0
247	CurrentClean: Spatio-Temporal Cleaning of Stale Data. , 2019, , .		8
248	Enhancing clinical concept extraction with contextual embeddings. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2019, 26, 1297-1304.	2.2	195
249	New-Onset Atrial Fibrillation as a Sepsis-Defining Organ Failure. <i>Annals of the American Thoracic Society</i> , 2019, 16, 1332-1334.	1.5	15
250	Big Data Analysis and Machine Learning in Intensive Care Units. <i>Medicina Intensiva (English Edition)</i> , 2019, 43, 416-426.	0.1	14
251	Assertion Detection in Clinical Natural Language Processing: A Knowledge-Poor Machine Learning Approach. , 2019, , .		3
252	Healthcare processes of laboratory tests for the prediction of mortality in the intensive care unit: a retrospective study based on electronic healthcare records in the USA. <i>BMJ Open</i> , 2019, 9, e028101.	0.8	5
253	LiSep LSTM: A Machine Learning Algorithm for Early Detection of Septic Shock. <i>Scientific Reports</i> , 2019, 9, 15132.	1.6	71
254	Evaluating shallow and deep learning strategies for the 2018 n2c2 shared task on clinical text classification. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2019, 26, 1247-1254.	2.2	33
255	Broadening horizons: the case for capturing function and the role of health informatics in its use. <i>BMC Public Health</i> , 2019, 19, 1288.	1.2	17

#	ARTICLE	IF	CITATIONS
256	Predicting diabetes second-line therapy initiation in the Australian population via time span-guided neural attention network. PLoS ONE, 2019, 14, e0211844.	1.1	7
257	Clinical applications of artificial intelligence in sepsis: A narrative review. Computers in Biology and Medicine, 2019, 115, 103488.	3.9	77
258	Developing a FHIR-based EHR phenotyping framework: A case study for identification of patients with obesity and multiple comorbidities from discharge summaries. Journal of Biomedical Informatics, 2019, 99, 103310.	2.5	48
259	Mining Typical Treatment Duration Patterns for Rational Drug Use from Electronic Medical Records. Journal of Systems Science and Systems Engineering, 2019, 28, 602-620.	0.8	6
260	Learning Electronic Health Records through Hyperbolic Embedding of Medical Ontologies. , 2019, , .		10
261	Assessing privacy and quality of synthetic health data. , 2019, , .		9
262	Trends and Focus of Machine Learning Applications for Health Research. JAMA Network Open, 2019, 2, e1914051.	2.8	44
263	Bi-Dimensional Representation of Patients for Diagnosis Prediction. , 2019, , .		4
264	Dexmedetomidine versus midazolam and propofol for sedation in critically ill patients: Mining the Medical Information Mart for Intensive Care data. Annals of Translational Medicine, 2019, 7, 197-197.	0.7	8
265	Time-series as Background Data for Relating Medical Diagnoses Terms. , 2019, , .		0
266	A Data-Driven Approach to Predicting Septic Shock in the Intensive Care Unit. Biomedical Informatics Insights, 2019, 11, 117822261988514.	4.6	20
267	Caution should be taken when using electronic health record database. Critical Care, 2019, 23, 345.	2.5	1
268	Analysis of Pulse Arrival Time as an Indicator of Blood Pressure in a Large Surgical Biosignal Database: Recommendations for Developing Ubiquitous Blood Pressure Monitoring Methods. Journal of Clinical Medicine, 2019, 8, 1773.	1.0	38
269	Early lactate measurement is associated with better outcomes in septic patients with an elevated serum lactate level. Critical Care, 2019, 23, 351.	2.5	26
270	A method for the graphical modeling of relative temporal constraints. Journal of Biomedical Informatics, 2019, 100, 103314.	2.5	13
271	Natural Language Processing of Clinical Notes for Improved Early Prediction of Septic Shock in the ICU. , 2019, 2019, 6103-6108.		19
272	Multiple Physiological Signals Fusion Techniques for Improving Heartbeat Detection: A Review. Sensors, 2019, 19, 4708.	2.1	19
273	Unpacking Prevalence and Dichotomy in qSOFA Parameters: A Step towards Multi-parameter Intelligent Sepsis Prediction in ICU. , 2019, , .		2

#	ARTICLE	IF	CITATIONS
274	Prediction of Patient-specific Acute Hypotensive Episodes in ICU Using Deep Models. , 2019, 2019, 566-569.		1
275	The early prediction of neonates mortality in Intensive Care Unit. , 2019, , .		4
276	EHR Coding with Multi-scale Feature Attention and Structured Knowledge Graph Propagation. , 2019, , .		46
277	Information Extraction from Electronic Medical Records Using Multitask Recurrent Neural Network with Contextual Word Embedding. Applied Sciences (Switzerland), 2019, 9, 3658.	1.3	24
278	PEARL. , 2019, , .		2
279	Feature Engineering for ICU Mortality Prediction Based on Hourly to Bi-Hourly Measurements. Applied Sciences (Switzerland), 2019, 9, 3525.	1.3	11
280	Evidence-based prediction of Atrial Fibrillation using physiological signals. , 2019, , .		3
282	Boosting the Rule-Out Accuracy of Deep Disease Detection Using Class Weight Modifiers. , 2019, , .		0
283	Deep Learning-Based Electrocardiogram Signal Noise Detection and Screening Model. Healthcare Informatics Research, 2019, 25, 201.	1.0	29
284	Alleviation of exhaustion-induced immunosuppression and sepsis by immune checkpoint blockers sequentially administered with antibioticsâ€™ analysis of a new mathematical model. Intensive Care Medicine Experimental, 2019, 7, 32.	0.9	8
285	Towards Scalable Hybrid Stores. , 2019, , .		15
286	Design and implementation of a deep recurrent model for prediction of readmission in urgent care using electronic health records. , 2019, , .		8
287	Unsupervised Clinical Language Translation. , 2019, , .		12
288	Retaining Privileged Information for Multi-Task Learning. , 2019, 2019, 1369-1377.		13
289	Interpretable and Steerable Sequence Learning via Prototypes. , 2019, , .		55
290	Adaptive-Halting Policy Network for Early Classification. , 2019, , .		21
291	Reduced Rank Least Squares for Real-Time Short Term Estimation of Mean Arterial Blood Pressure in Septic Patients Receiving Norepinephrine. IEEE Journal of Translational Engineering in Health and Medicine, 2019, 7, 1-9.	2.2	2
292	Predicting sepsis with a recurrent neural network using the MIMIC III database. Computers in Biology and Medicine, 2019, 113, 103395.	3.9	86

#	ARTICLE	IF	CITATIONS
293	Using the National Early Warning Score (NEWS/NEWS 2) in different Intensive Care Units (ICUs) to predict the discharge location of patients. BMC Public Health, 2019, 19, 1231.	1.2	16
294	Heterogeneity introduced by EHR system implementation in a de-identified data resource from 100 non-affiliated organizations. JAMIA Open, 2019, 2, 554-561.	1.0	31
295	Precision Medicine and its Role in the Treatment of Sepsis: A Personalised View. The Journal of Critical Care Medicine, 2019, 5, 90-96.	0.3	18
296	Clinical Decision-Support Systems for Detection of Systemic Inflammatory Response Syndrome, Sepsis, and Septic Shock in Critically Ill Patients: A Systematic Review. Methods of Information in Medicine, 2019, 58, e43-e57.	0.7	34
297	Critical Transitions in Intensive Care Units: A Sepsis Case Study. Scientific Reports, 2019, 9, 12888.	1.6	12
298	On Computer-Aided Prognosis of Septic Shock from Vital Signs. , 2019, , .		1
299	A privacy-preserving distributed filtering framework for NLP artifacts. BMC Medical Informatics and Decision Making, 2019, 19, 183.	1.5	13
300	Increased body mass index linked to greater short- and long-term survival in sepsis patients: A retrospective analysis of a large clinical database. International Journal of Infectious Diseases, 2019, 87, 109-116.	1.5	31
301	Elevated urea-to-creatinine ratio provides a biochemical signature of muscle catabolism and persistent critical illness after major trauma. Intensive Care Medicine, 2019, 45, 1718-1731.	3.9	98
302	Updates in Human-AI Teams: Understanding and Addressing the Performance/Compatibility Tradeoff. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 2429-2437.	3.6	107
303	Extracting entities with attributes in clinical text via joint deep learning. Journal of the American Medical Informatics Association: JAMIA, 2019, 26, 1584-1591.	2.2	14
304	Data-Driven Lexical Normalization for Medical Social Media. Multimodal Technologies and Interaction, 2019, 3, 60.	1.7	8
305	An awakening in medicine: the partnership of humanity and intelligent machines. The Lancet Digital Health, 2019, 1, e255-e257.	5.9	40
306	Red blood cell distribution width provides additional prognostic value beyond severity scores in adult critical illness. Clinica Chimica Acta, 2019, 498, 62-67.	0.5	16
307	Medical device surveillance with electronic health records. Npj Digital Medicine, 2019, 2, 94.	5.7	44
308	Subphenotypes of Cardiac Arrest Patients Admitted to Intensive Care Unit: a latent profile analysis of a large critical care database. Scientific Reports, 2019, 9, 13644.	1.6	5
309	Unexpected sawtooth artifact in beat-to-beat pulse transit time measured from patient monitor data. PLoS ONE, 2019, 14, e0221319.	1.1	6
310	Association of Sex With Clinical Outcome in Critically Ill Sepsis Patients: A Retrospective Analysis of the Large Clinical Database MIMIC-III. Shock, 2019, 52, 146-151.	1.0	43

#	ARTICLE	IF	CITATIONS
311	Data Science for Child Health. <i>Journal of Pediatrics</i> , 2019, 208, 12-22.	0.9	22
312	VERB: VFCDM-Based Electrocardiogram Reconstruction and Beat Detection Algorithm. <i>IEEE Access</i> , 2019, 7, 13856-13866.	2.6	33
313	Early diuretic use and mortality in critically ill patients with vasopressor support: a propensity score-matching analysis. <i>Critical Care</i> , 2019, 23, 9.	2.5	38
315	An empirical evaluation of deep learning for ICD-9 code assignment using MIMIC-III clinical notes. <i>Computer Methods and Programs in Biomedicine</i> , 2019, 177, 141-153.	2.6	74
316	Survival prediction in intensive-care units based on aggregation of long-term disease history and acute physiology: a retrospective study of the Danish National Patient Registry and electronic patient records. <i>The Lancet Digital Health</i> , 2019, 1, e78-e89.	5.9	76
317	Designing Theory-Driven User-Centric Explainable AI. , 2019, , .		319
318	Distributed Tensor Decomposition for Large Scale Health Analytics. , 2019, 2019, 659-669.		15
319	Multitask learning and benchmarking with clinical time series data. <i>Scientific Data</i> , 2019, 6, 96.	2.4	360
320	Critical Care, Critical Data. <i>Biomedical Engineering and Computational Biology</i> , 2019, 10, 117959721985656.	0.8	33
321	The neutrophil-lymphocyte ratio: A promising predictor of mortality in coronary care unit patients â€” A cohort study. <i>International Immunopharmacology</i> , 2019, 74, 105692.	1.7	29
322	Predicting Patientâ€™s Diagnoses and Diagnostic Categories from Clinical-Events in EHR Data. <i>Lecture Notes in Computer Science</i> , 2019, 11526, 125-130.	1.0	13
323	TAGS: Towards Automated Classification of Unstructured Clinical Nursing Notes. <i>Lecture Notes in Computer Science</i> , 2019, , 195-207.	1.0	6
324	Toward a clinical text encoder: pretraining for clinical natural language processing with applications to substance misuse. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2019, 26, 1272-1278.	2.2	16
325	Recent Context-Aware LSTM for Clinical Event Time-Series Prediction. <i>Lecture Notes in Computer Science</i> , 2019, 11526, 13-23.	1.0	13
326	Examining the weekend effect across ICU performance metrics. <i>Critical Care</i> , 2019, 23, 207.	2.5	9
327	Learning and recommending treatments using electronic medical records. <i>Knowledge-Based Systems</i> , 2019, 181, 104788.	4.0	15
328	Patterns of diuretic use in the intensive care unit. <i>PLoS ONE</i> , 2019, 14, e0217911.	1.1	21
329	A novel approach for exposing and sharing clinical data: the Translator Integrated Clinical and Environmental Exposures Service. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2019, 26, 1064-1073.	2.2	21

#	ARTICLE	IF	CITATIONS
330	Knowledge-Aware Deep Dual Networks for Text-Based Mortality Prediction. , 2019, , .		10
331	Likelihood-Based Adaptive Learning in Stochastic State-Based Models. IEEE Signal Processing Letters, 2019, 26, 1031-1035.	2.1	1
332	Privacy Preservation in Publishing Electronic Health Records Based on Perturbation. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 125-140.	0.2	1
333	A Non-Invasive Continuous Blood Pressure Estimation Approach Based on Machine Learning. Sensors, 2019, 19, 2585.	2.1	57
334	A machine learning model for predicting ICU readmissions and key risk factors: analysis from a longitudinal health records. Health and Technology, 2019, 9, 297-309.	2.1	7
335	Intensive Care Unit Telemedicine in the Era of Big Data, Artificial Intelligence, and Computer Clinical Decision Support Systems. Critical Care Clinics, 2019, 35, 483-495.	1.0	44
336	Outcome-Based Critical Result Thresholds in the Adult Patient Population. American Journal of Clinical Pathology, 2019, 152, 177-184.	0.4	8
337	The paradox prevails: Outcomes are better in critically ill obese patients regardless of the comorbidity burden. Journal of Critical Care, 2019, 53, 25-31.	1.0	21
338	Improving Medical Code Prediction from Clinical Text via Incorporating Online Knowledge Sources. , 2019, , .		24
339	VetTag: improving automated veterinary diagnosis coding via large-scale language modeling. Npj Digital Medicine, 2019, 2, 35.	5.7	15
340	A machine learning approach for predicting urine output after fluid administration. Computer Methods and Programs in Biomedicine, 2019, 177, 155-159.	2.6	20
341	CRESA: A Deep Learning Approach to Competing Risks, Recurrent Event Survival Analysis. Lecture Notes in Computer Science, 2019, , 108-122.	1.0	5
342	Veterans Affairs patient database (VAPD 2014â€“2017): building nationwide granular data for clinical discovery. BMC Medical Research Methodology, 2019, 19, 94.	1.4	23
343	A novel GA-ELM model for patient-specific mortality prediction over large-scale lab event data. Applied Soft Computing Journal, 2019, 80, 525-533.	4.1	45
344	Application of artificial intelligence in pediatrics: past, present and future. World Journal of Pediatrics, 2019, 15, 105-108.	0.8	29
345	Data-driven discovery of a novel sepsis pre-shock state predicts impending septic shock in the ICU. Scientific Reports, 2019, 9, 6145.	1.6	56
346	Identifying Clinical Terms in Free-Text Notes Using Ontology-Guided Machine Learning. Lecture Notes in Computer Science, 2019, , 19-34.	1.0	1
347	Prognostic accuracy of the serum lactate level, the SOFA score and the qSOFA score for mortality among adults with Sepsis. Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine, 2019, 27, 51.	1.1	155

#	ARTICLE	IF	CITATIONS
348	Learning Fine-Grained Patient Similarity with Dynamic Bayesian Network Embedded RNNs. Lecture Notes in Computer Science, 2019, , 587-603.	1.0	8
349	Continuous Patient-Centric Sequence Generation via Sequentially Coupled Adversarial Learning. Lecture Notes in Computer Science, 2019, , 36-52.	1.0	11
350	DMMAM: Deep Multi-source Multi-task Attention Model for Intensive Care Unit Diagnosis. Lecture Notes in Computer Science, 2019, , 53-69.	1.0	4
351	Evaluation of a machine learning algorithm for up to 48-hour advance prediction of sepsis using six vital signs. Computers in Biology and Medicine, 2019, 109, 79-84.	3.9	91
352	Clinical text classification with rule-based features and knowledge-guided convolutional neural networks. BMC Medical Informatics and Decision Making, 2019, 19, 71.	1.5	76
353	Parsing clinical text using the state-of-the-art deep learning based parsers: a systematic comparison. BMC Medical Informatics and Decision Making, 2019, 19, 77.	1.5	4
354	Relation between Red Cell Distribution Width and Mortality in Critically Ill Patients with Acute Respiratory Distress Syndrome. BioMed Research International, 2019, 2019, 1-8.	0.9	49
355	The association between autoimmune disease and 30-day mortality among sepsis ICU patients: a cohort study. Critical Care, 2019, 23, 93.	2.5	26
356	How Effective Is Pulse Arrival Time for Evaluating Blood Pressure? Challenges and Recommendations from a Study Using the MIMIC Database. Journal of Clinical Medicine, 2019, 8, 337.	1.0	56
357	Distributed learning from multiple EHR databases: Contextual embedding models for medical events. Journal of Biomedical Informatics, 2019, 92, 103138.	2.5	27
358	Clinical Natural Language Processing with Deep Learning. , 2019, , 147-171.		20
359	The complexity of intracranial pressure as an indicator of cerebral autoregulation. Communications in Nonlinear Science and Numerical Simulation, 2019, 75, 192-199.	1.7	2
360	Distributional Semantics of Clinical Words. , 2019, , .		2
361	Association of serum total and ionized calcium with all-cause mortality in critically ill patients with acute kidney injury. Clinica Chimica Acta, 2019, 494, 94-99.	0.5	32
362	Quantifying risk factors in medical reports with a context-aware linear model. Journal of the American Medical Informatics Association: JAMIA, 2019, 26, 537-546.	2.2	3
363	Hierarchical patient-centric caregiver network method for clinical outcomes study. PLoS ONE, 2019, 14, e0211218.	1.1	1
364	Integrating shortest dependency path and sentence sequence into a deep learning framework for relation extraction in clinical text. BMC Medical Informatics and Decision Making, 2019, 19, 22.	1.5	38
365	Predicting tachycardia as a surrogate for instability in the intensive care unit. Journal of Clinical Monitoring and Computing, 2019, 33, 973-985.	0.7	27

#	ARTICLE	IF	CITATIONS
366	Text Mining for Drug Discovery. <i>Methods in Molecular Biology</i> , 2019, 1939, 231-252.	0.4	30
367	Attention-Based Hierarchical Recurrent Neural Network for Phenotype Classification. <i>Lecture Notes in Computer Science</i> , 2019, , 465-476.	1.0	2
368	Inverse reinforcement learning for intelligent mechanical ventilation and sedative dosing in intensive care units. <i>BMC Medical Informatics and Decision Making</i> , 2019, 19, 57.	1.5	32
369	Neural transfer learning for assigning diagnosis codes to EMRs. <i>Artificial Intelligence in Medicine</i> , 2019, 96, 116-122.	3.8	31
370	Towards a decision support tool for intensive care discharge: machine learning algorithm development using electronic healthcare data from MIMIC-III and Bristol, UK. <i>BMJ Open</i> , 2019, 9, e025925.	0.8	50
371	Machine learning for the prediction of volume responsiveness in patients with oliguric acute kidney injury in critical care. <i>Critical Care</i> , 2019, 23, 112.	2.5	189
372	Performance comparison of prediction models for neonatal sepsis using logistic regression, multiple discriminant analysis and artificial neural network. <i>Biomedical Physics and Engineering Express</i> , 2019, 5, 035013.	0.6	1
373	Machine Learning in Health Care: A Critical Appraisal of Challenges and Opportunities. <i>EGEMS (Washington, DC)</i> , 2019, 7, 1.	2.0	59
374	Interaction between serum chloride increase and baseline chloride level. <i>Intensive Care Medicine</i> , 2019, 45, 909-910.	3.9	1
375	Rate of Correction of Hyponatremia and Health Outcomes in Critically Ill Patients. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , 2019, 14, 656-663.	2.2	60
376	MedSpecSearch: Medical Specialty Search. <i>Lecture Notes in Computer Science</i> , 2019, , 225-229.	1.0	0
377	Multivariate Sequential Analytics for Treatment Trajectory Forecasting. , 2019, , .		0
378	Identification of Serious Illness Conversations in Unstructured Clinical Notes Using Deep Neural Networks. <i>Lecture Notes in Computer Science</i> , 2019, , 199-212.	1.0	1
379	Causal Inference From Observational Data: New Guidance From Pulmonary, Critical Care, and Sleep Journals. <i>Critical Care Medicine</i> , 2019, 47, 1-2.	0.4	24
380	Early prediction of acute kidney injury following ICU admission using a multivariate panel of physiological measurements. <i>BMC Medical Informatics and Decision Making</i> , 2019, 19, 16.	1.5	64
381	An attention based deep learning model of clinical events in the intensive care unit. <i>PLoS ONE</i> , 2019, 14, e0211057.	1.1	108
382	Predicting in-hospital mortality of patients with acute kidney injury in the ICU using random forest model. <i>International Journal of Medical Informatics</i> , 2019, 125, 55-61.	1.6	112
383	Description of Clinical Characteristics of VAP Patients in MIMIC Database. <i>Frontiers in Pharmacology</i> , 2019, 10, 62.	1.6	6

#	ARTICLE	IF	CITATIONS
384	Withholding or withdrawing invasive interventions may not accelerate time to death among dying ICU patients. PLoS ONE, 2019, 14, e0212439.	1.1	5
385	Unsupervised concept extraction from clinical text through semantic composition. Journal of Biomedical Informatics, 2019, 91, 103120.	2.5	6
386	Big data and machine learning in critical care: Opportunities for collaborative research. Medicina Intensiva (English Edition), 2019, 43, 52-57.	0.1	9
387	A quantitative exploration of gastrointestinal bleeding in intensive care unit patients. PLoS ONE, 2019, 14, e0212040.	1.1	1
389	Machine-Learning-Based Laboratory Developed Test for the Diagnosis of Sepsis in High-Risk Patients. Diagnostics, 2019, 9, 20.	1.3	26
390	Platelet-to-lymphocyte ratio as a prognostic predictor of mortality for sepsis: interaction effect with disease severity—a retrospective study. BMJ Open, 2019, 9, e022896.	0.8	88
391	Using machine learning models to predict oxygen saturation following ventilator support adjustment in critically ill children: A single center pilot study. PLoS ONE, 2019, 14, e0198921.	1.1	28
392	Cardiovascular Computing in the Intensive Care Unit. Series in Bioengineering, 2019, , 351-362.	0.3	0
393	Title Cardiovascular Big Data Analytics. Series in Bioengineering, 2019, , 303-313.	0.3	0
394	DeepSOFA: A Continuous Acuity Score for Critically Ill Patients using Clinically Interpretable Deep Learning. Scientific Reports, 2019, 9, 1879.	1.6	97
395	A Concise Temporal Data Representation Model for Prediction in Biomedical Wearable Devices. IEEE Internet of Things Journal, 2019, 6, 1438-1445.	5.5	4
396	A Multi-channel Convolutional Neural Network for ICD Coding. , 2019, , .		2
397	Counterintuitive results from observational data: a case study and discussion. BMJ Open, 2019, 9, e026447.	0.8	1
398	An ensemble framework with l_{21} -norm regularized hypergraph laplacian multi-label learning for clinical data prediction. , 2019, , .		0
399	Query Reconstruction in Medical Case Description Using Query Performance Predictors. , 2019, , .		0
400	Patient-level Classification on Clinical Note Sequences Guided by Attributed Hierarchical Attention. , 2019, , .		3
401	Fuzzy Logic for Medical Diagnosis of Clinical and Hematological Symptoms. , 2019, , .		1
402	Intervention-Aware Early Warning. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
403	Towards Spoken Medical Prescription Understanding. , 2019, , .		4
404	Extraction of chemicalâ€“protein interactions from the literature using neural networks and narrow instance representation. Database: the Journal of Biological Databases and Curation, 2019, 2019, .	1.4	7
405	DCMN: Double Core Memory Network for Patient Outcome Prediction with Multimodal Data. , 2019, , .		4
406	Temporal Self-Attention Network for Medical Concept Embedding. , 2019, , .		15
407	Clinical Entities Association Rules (CLEAR): Untangling Clinical Notes in Electronic Health Records. , 2019, , .		1
408	Estimating Missing Values in Multivariate-Time-Series Clinical Data using Gradient Boosting Tree on Temporal and Cross-variable Features. , 2019, , .		2
409	Early Sepsis Prediction in ICU Trauma Patients with Using An Improved Cascade Deep Forest Model. , 2019, , .		1
410	Interpatient Similarity-based Imputation of Missing Data in Electronic Health Records. , 2019, , .		0
411	Interpolation and K-Nearest Neighbours Combined Imputation for Longitudinal ICU Laboratory Data. , 2019, , .		1
412	Missing Data Imputation for MIMIC-III using Matrix Decomposition. , 2019, , .		2
413	Constructing a Comprehensive Clinical Database Integrating Patients' Data from Intensive Care Units and General Wards. , 2019, , .		2
414	MICE-DA: A MICE method with Data Augmentation for missing data imputation in IEEE ICHI 2019 DACMI Challenge. , 2019, , .		3
415	Context-Aware Imputation for Clinical Time Series. , 2019, , .		3
416	UMLS mapping and Word embeddings for ICD code assignment using the MIMIC-III intensive care database. , 2019, 2019, 6089-6092.		10
417	DKDR: An Approach of Knowledge Graph and Deep Reinforcement Learning for Disease Diagnosis. , 2019, , .		5
418	Assessing Context-Aware Data Consistency. , 2019, , .		2
419	Data Mined Models for Predicting In-hospital Mortality of Emergency Admissions at Time of Hospital Admission Robert Steele. , 2019, , .		2
420	Mixture-based Multiple Imputation Model for Clinical Data with a Temporal Dimension. , 2019, , .		4

#	ARTICLE	IF	CITATIONS
421	A Proof-of-Concept 70 nA ECG Processor for Real-Time R-Wave and NN50 Detection. Journal of Physics: Conference Series, 2019, 1407, 012128.	0.3	0
422	Learning Temporal Relevance in Longitudinal Medical Notes. , 2019, , .		0
423	Hierarchical Adaptive Multi-task Learning Framework for Patient Diagnoses and Diagnostic Category Classification. , 2019, 2019, .		9
424	Automatic ICD code assignment utilizing textual descriptions and hierarchical structure of ICD code. , 2019, , .		3
425	Respiratory parameters and acute kidney injury in acute respiratory distress syndrome: a causal inference study. Annals of Translational Medicine, 2019, 7, 742-742.	0.7	9
426	Clinical named-entity recognition: A short comparison. , 2019, 2019, 1548-1550.		2
427	Unsupervised Annotation of Phenotypic Abnormalities via Semantic Latent Representations on Electronic Health Records. , 2019, , .		3
428	Domain Knowledge Guided Deep Learning with Electronic Health Records. , 2019, , .		41
429	How Robust is Your Automatic Diagnosis Model?. , 2019, , .		0
430	A General Fine-tuned Transfer Learning Model for Predicting Clinical Task Acrossing Diverse EHRs Datasets. , 2019, , .		4
431	CTC-Attention based Non-Parametric Inference Modeling for Clinical State Progression. , 2019, , .		1
432	Deep Imputation of Temporal Data. , 2019, , .		4
433	Privacy-preserving Heterogeneous Federated Transfer Learning. , 2019, , .		41
434	Visual Anomaly Detection in Event Sequence Data. , 2019, , .		13
435	Learning unsupervised contextual representations for medical synonym discovery. JAMIA Open, 2019, 2, 538-546.	1.0	9
436	Disease Prediction Model Based on BiLSTM and Attention Mechanism. , 2019, , .		7
437	Using Machine Learning to Predict Hyperchloremia in Critically Ill Patients. , 2019, 2019, 1703-1707.		2
438	Hierarchical Target-Attentive Diagnosis Prediction in Heterogeneous Information Networks. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
439	Data-driven Discovery of a Sepsis Patients Severity Prediction in the ICU via Pre-training BiLSTM Networks. , 2019, , .		5
440	Continuous blood pressure measurement based on photoplethysmography. , 2019, , .		9
441	Multifractal detrended fluctuation analysis of heart rate variability predicts short-term outcomes of patients with sepsis. , 2019, , .		1
442	Fuzzy Modeling of Survival Associated to Insulin Therapy in the ICU. , 2019, , .		0
443	Atrial Fibrillation Detection in ICU Patients: A Pilot Study on MIMIC III Data. , 2019, 2019, 298-301.		10
444	A Characteristic Filtering Method for Pulse Wave Signal Quality Assessment. , 2019, 2019, 603-606.		6
445	Understanding the relationship between healthcare processes and in-hospital weekend mortality using MIMIC III. Smart Health, 2019, 14, 100084.	2.0	2
446	Comparing General and Locally-Learned Word Embeddings for Clinical Text Mining. , 2019, , .		3
447	Ensemble CNN and MLP with Nurse Notes for Intensive Care Unit Mortality. , 2019, , .		1
448	Finding relevant free-text radiology reports at scale with IBM Watson Content Analytics: a feasibility study in the UK NHS. Journal of Biomedical Semantics, 2019, 10, 21.	0.9	4
449	BioSentVec: creating sentence embeddings for biomedical texts. , 2019, , .		91
450	Predicting Lung Healthiness Risk Scores to Identify Probability of an Asthma Attack. Procedia Computer Science, 2019, 160, 424-431.	1.2	3
451	Using Temporal Feature Aggregation and Gradient Boosting Tree on Missing Data Imputation. , 2019, , .		0
452	MIMIC-CXR, a de-identified publicly available database of chest radiographs with free-text reports. Scientific Data, 2019, 6, 317.	2.4	477
453	Deep Reinforcement Learning for Optimal Critical Care Pain Management with Morphine using Dueling Double-Deep Q Networks. , 2019, 2019, 3960-3963.		21
454	Learning Deep Representations from Clinical Data for Chronic Kidney Disease. , 2019, , .		2
455	A Study of Deep Learning Methods for De-identification of Clinical Notes at Cross Institute Settings. , 2019, 2019, .		1
456	An Architecture Based on Fuzzy Systems for Personalized Medicine in ICUs. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
457	Attentive Dual Embedding for Understanding Medical Concepts in Electronic Health Records. , 2019, , .		9
458	A survey of word embeddings for clinical text. Journal of Biomedical Informatics: X, 2019, 100, 100057.	4.2	122
459	Challenges of developing a digital scribe to reduce clinical documentation burden. Npj Digital Medicine, 2019, 2, 114.	5.7	57
460	Machine learning can accurately predict pre-admission baseline hemoglobin and creatinine in intensive care patients. Npj Digital Medicine, 2019, 2, 116.	5.7	17
461	XGBoost Imputation for Time Series Data. , 2019, , .		6
462	Deep Inverse Reinforcement Learning for Sepsis Treatment. , 2019, , .		18
463	Cardiac arrest: prediction models in the early phase of hospitalization. Current Opinion in Critical Care, 2019, 25, 204-210.	1.6	14
464	Linking Big Data and Prediction Strategies: Tools, Pitfalls, and Lessons Learned. Critical Care Medicine, 2019, 47, 840-848.	0.4	16
465	Incorporating medical code descriptions for diagnosis prediction in healthcare. BMC Medical Informatics and Decision Making, 2019, 19, 267.	1.5	5
466	An adaptive term proximity based rocchioâ€™s model for clinical decision support retrieval. BMC Medical Informatics and Decision Making, 2019, 19, 251.	1.5	11
467	<p>Developing a Registry of Healthcare-Associated Infections at Intensive Care Units in West China: Study Rationale and Patient Characteristics<p>. Clinical Epidemiology, 2019, Volume 11, 1035-1045.	1.5	14
468	longSil: an Evaluation Metric to Assess Quality of Clustering Longitudinal Clinical Data. Journal of Healthcare Informatics Research, 2019, 3, 441-459.	5.3	0
469	Association Between the Use of Sodium Bicarbonate and Mortality in Acute Kidney Injury Using Marginal Structural Cox Model. Critical Care Medicine, 2019, 47, 1402-1408.	0.4	20
470	A Long Short-Term Memory Ensemble Approach for Improving the Outcome Prediction in Intensive Care Unit. Computational and Mathematical Methods in Medicine, 2019, 2019, 1-10.	0.7	21
471	Prognostic value of international normalized ratio to albumin ratio among critically ill patients with cirrhosis. European Journal of Gastroenterology and Hepatology, 2019, 31, 824-831.	0.8	11
472	Artificial Intelligence in Critical Care. International Anesthesiology Clinics, 2019, 57, 89-102.	0.3	27
473	Estimated Effects of Early Diuretic Use in Critical Illness. , 2019, 1, e0021.		4
474	A Patient Outcome Prediction based on Random Forest. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
475	Big Data Analytics in Healthcare: Data-Driven Methods for Typical Treatment Pattern Mining. Journal of Systems Science and Systems Engineering, 2019, 28, 694-714.	0.8	29
476	A study of deep learning methods for de-identification of clinical notes in cross-institute settings. BMC Medical Informatics and Decision Making, 2019, 19, 232.	1.5	47
477	Extending a Generative Adversarial Network to Produce Medical Records with Demographic Characteristics and Health System Use. , 2019, , .		4
478	<i>Doccurate</i>: A Curation-Based Approach for Clinical Text Visualization. IEEE Transactions on Visualization and Computer Graphics, 2019, 25, 142-151.	2.9	26
479	Predicting ICU readmission using grouped physiological and medication trends. Artificial Intelligence in Medicine, 2019, 95, 27-37.	3.8	47
480	Neutrophil-lymphocyte ratio is associated with all-cause mortality among critically ill patients with acute kidney injury. Clinica Chimica Acta, 2019, 490, 207-213.	0.5	22
481	A new prediction model for assessing the clinical outcomes of ICU patients with community-acquired pneumonia: a decision tree analysis. Annals of Medicine, 2019, 51, 41-50.	1.5	13
482	Modeling left ventricular dynamics using a switched system approach based on a modified atrioventricular piston unit. Medical Engineering and Physics, 2019, 63, 42-49.	0.8	5
483	Synthesizing electronic health records using improved generative adversarial networks. Journal of the American Medical Informatics Association: JAMIA, 2019, 26, 228-241.	2.2	105
484	Construct validity of six sentiment analysis methods in the text of encounter notes of patients with critical illness. Journal of Biomedical Informatics, 2019, 89, 114-121.	2.5	35
485	Identifying the relationship between unstable vital signs and intensive care unit (ICU) readmissions: an analysis of 10-year of hospital ICU readmissions. Health and Technology, 2019, 9, 77-85.	2.1	0
486	Post-extrasystolic characteristics in the arterial blood pressure waveform are associated with right ventricular dysfunction in intensive care patients. Journal of Clinical Monitoring and Computing, 2019, 33, 565-571.	0.7	2
487	Deep learning algorithms to identify documentation of serious illness conversations during intensive care unit admissions. Palliative Medicine, 2019, 33, 187-196.	1.3	36
488	Heart Rate and Cardiorespiratory Analysis for Sepsis and Necrotizing Enterocolitis Prediction. , 2019, , 343-362.		0
489	Evaluating the quality of word representation models for unstructured clinical Text based ICU mortality prediction. , 2019, , .		7
490	A guide to deep learning in healthcare. Nature Medicine, 2019, 25, 24-29.	15.2	1,906
491	Relative criticalness of common laboratory tests for critical value reporting. Journal of Clinical Pathology, 2019, 72, 325-328.	1.0	6
492	Concept acquisition and improved in-database similarity analysis for medical data. Distributed and Parallel Databases, 2019, 37, 297-321.	1.0	3

#	ARTICLE	IF	CITATIONS
493	NON-INVASIVE PREDICTION MODEL FOR DEVELOPING COUNTRIES TO PREDICT SEPSIS IN NEONATES. Biomedical Engineering - Applications, Basis and Communications, 2019, 31, 1950001.	0.3	4
494	Big Data Analysis y Machine Learning en medicina intensiva. Medicina Intensiva, 2019, 43, 416-426.	0.4	33
495	A review of big data applications of physiological signal data. Biophysical Reviews, 2019, 11, 83-87.	1.5	20
496	Prognostic nomogram for acute pancreatitis patients: An analysis of publicly electronic healthcare records in intensive care unit. Journal of Critical Care, 2019, 50, 213-220.	1.0	26
497	Deep Learning in Cardiology. IEEE Reviews in Biomedical Engineering, 2019, 12, 168-193.	13.1	109
498	The assessment of data quality issues for process mining in healthcare using Medical Information Mart for Intensive Care III, a freely available e-health record database. Health Informatics Journal, 2019, 25, 1878-1893.	1.1	32
499	Life Model: A novel representation of life-long temporal sequences in health predictive analytics. Future Generation Computer Systems, 2019, 92, 141-156.	4.9	7
500	Impact of Intensive Care Unit Discharge Delays on Patient Outcomes: A Retrospective Cohort Study. Journal of Intensive Care Medicine, 2019, 34, 924-929.	1.3	15
501	Prolonged Elevated Heart Rate and 90-Day Survival in Acutely Ill Patients: Data From the MIMIC-III Database. Journal of Intensive Care Medicine, 2019, 34, 622-629.	1.3	20
502	A machine learning-based model for 1-year mortality prediction in patients admitted to an Intensive Care Unit with a diagnosis of sepsis. Medicina Intensiva, 2020, 44, 160-170.	0.4	36
503	Qualitative subjective assessment of a high-resolution database in a paediatric intensive care unit – Elaborating the perpetual patient's ID card. Journal of Evaluation in Clinical Practice, 2020, 26, 86-91.	0.9	7
504	An ensemble of neural models for nested adverse drug events and medication extraction with subwords. Journal of the American Medical Informatics Association: JAMIA, 2020, 27, 22-30.	2.2	41
505	A study of deep learning approaches for medication and adverse drug event extraction from clinical text. Journal of the American Medical Informatics Association: JAMIA, 2020, 27, 13-21.	2.2	81
506	Characteristics and Outcomes of Patients With and Without Type 2 Diabetes Mellitus and Pulmonary Sepsis. Journal of Intensive Care Medicine, 2020, 35, 836-843.	1.3	9
507	CASCADENET: An LSTM Based Deep Learning Model for Automated ICD-10 Coding. Lecture Notes in Networks and Systems, 2020, , 55-74.	0.5	7
508	Vasopressin Administration Is Associated With Rising Serum Lactate Levels in Patients With Sepsis. Journal of Intensive Care Medicine, 2020, 35, 881-888.	1.3	4
509	Factors associated with outcomes of septic shock patients receiving high dose noradrenaline according to three primary infection sites. Journal of International Medical Research, 2020, 48, 030006051987454.	0.4	1
510	AMRNN: attended multi-task recurrent neural networks for dynamic illness severity prediction. World Wide Web, 2020, 23, 2753-2770.	2.7	19

#	ARTICLE	IF	CITATIONS
511	Machine learning for clinical decision support in infectious diseases: a narrative review of current applications. <i>Clinical Microbiology and Infection</i> , 2020, 26, 584-595.	2.8	218
512	The Search for Optimal Oxygen Saturation Targets in Critically Ill Patients. <i>Chest</i> , 2020, 157, 566-573.	0.4	80
513	Extracting medications and associated adverse drug events using a natural language processing system combining knowledge base and deep learning. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2020, 27, 56-64.	2.2	47
514	Adverse drug events and medication relation extraction in electronic health records with ensemble deep learning methods. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2020, 27, 39-46.	2.2	72
515	Exercise interventions are delayed in critically ill patients: a cohort study in an Australian tertiary intensive care unit. <i>Physiotherapy</i> , 2020, 109, 75-84.	0.2	6
516	Using a Multi-Task Recurrent Neural Network With Attention Mechanisms to Predict Hospital Mortality of Patients. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020, 24, 486-492.	3.9	30
517	A disease inference method based on symptom extraction and bidirectional Long Short Term Memory networks. <i>Methods</i> , 2020, 173, 75-82.	1.9	14
518	Predicting hospital mortality for intensive care unit patients: Time-series analysis. <i>Health Informatics Journal</i> , 2020, 26, 1043-1059.	1.1	35
519	Adverse drug event and medication extraction in electronic health records via a cascading architecture with different sequence labeling models and word embeddings. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2020, 27, 47-55.	2.2	30
520	A nomogram for predicting the risk of sepsis in patients with acute cholangitis. <i>Journal of International Medical Research</i> , 2020, 48, 030006051986610.	0.4	4
521	Pleural Effusion Outcomes in Intensive Care: Analysis of a Large Clinical Database. <i>Journal of Intensive Care Medicine</i> , 2020, 35, 48-54.	1.3	6
522	Natural language processing of electronic health records is superior to billing codes to identify symptom burden in hemodialysis patients. <i>Kidney International</i> , 2020, 97, 383-392.	2.6	27
523	Leaf: an open-source, model-agnostic, data-driven web application for cohort discovery and translational biomedical research. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2020, 27, 109-118.	2.2	35
524	Characterization and validation of a novel measure of septic shock severity. <i>Intensive Care Medicine</i> , 2020, 46, 135-137.	3.9	12
525	Parameterizing neural networks for disease classification. <i>Expert Systems</i> , 2020, 37, e12465.	2.9	5
526	Identifying relations of medications with adverse drug events using recurrent convolutional neural networks and gradient boosting. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2020, 27, 65-72.	2.2	46
527	2018 n2c2 shared task on adverse drug events and medication extraction in electronic health records. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2020, 27, 3-12.	2.2	152
528	Axes of a revolution: challenges and promises of big data in healthcare. <i>Nature Medicine</i> , 2020, 26, 29-38.	15.2	206

#	ARTICLE	IF	CITATIONS
529	Early diagnosis of bloodstream infections in the intensive care unit using machine-learning algorithms. <i>Intensive Care Medicine</i> , 2020, 46, 454-462.	3.9	41
530	Identifying sub-phenotypes of acute kidney injury using structured and unstructured electronic health record data with memory networks. <i>Journal of Biomedical Informatics</i> , 2020, 102, 103361.	2.5	49
531	From a pressure-guided to a perfusion-centered resuscitation strategy in septic shock: Critical literature review and illustrative case. <i>Journal of Critical Care</i> , 2020, 56, 294-304.	1.0	12
532	Forecasting intracranial hypertension using multi-scale waveform metrics. <i>Physiological Measurement</i> , 2020, 41, 014001.	1.2	13
533	Central venous pressure and the risk of diuretic-associated acute kidney injury in patients after cardiac surgery. <i>American Heart Journal</i> , 2020, 221, 67-73.	1.2	15
534	Ensemble method-based extraction of medication and related information from clinical texts. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2020, 27, 31-38.	2.2	35
535	SECNLP: A survey of embeddings in clinical natural language processing. <i>Journal of Biomedical Informatics</i> , 2020, 101, 103323.	2.5	46
536	Length of stay prediction for ICU patients using individualized single classification algorithm. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 186, 105224.	2.6	39
537	Attributable nephrotoxicity of vancomycin in critically ill patients: a marginal structural model study. <i>Journal of Antimicrobial Chemotherapy</i> , 2020, 75, 1031-1037.	1.3	13
538	Impact of loop diuretics on critically ill patients with a positive fluid balance. <i>Anaesthesia</i> , 2020, 75, e134-e142.	1.8	14
539	Transfer Learning for Clinical Time Series Analysis Using Deep Neural Networks. <i>Journal of Healthcare Informatics Research</i> , 2020, 4, 112-137.	5.3	42
540	Predicting ICD-9 code groups with fuzzy similarity based supervised multi-label classification of unstructured clinical nursing notes. <i>Knowledge-Based Systems</i> , 2020, 190, 105321.	4.0	24
541	Task definition, annotated dataset, and supervised natural language processing models for symptom extraction from unstructured clinical notes. <i>Journal of Biomedical Informatics</i> , 2020, 102, 103354.	2.5	18
542	Boosting ICD multi-label classification of health records with contextual embeddings and label-granularity. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 188, 105264.	2.6	26
543	Long Short-Term Memory Recurrent Neural Networks for Multiple Diseases Risk Prediction by Leveraging Longitudinal Medical Records. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020, 24, 2337-2346.	3.9	24
544	A comprehensive evaluation for the prediction of mortality in intensive care units with LSTM networks: patients with cardiovascular disease. <i>Biomedizinische Technik</i> , 2020, 65, 435-446.	0.9	6
545	Terminologies augmented recurrent neural network model for clinical named entity recognition. <i>Journal of Biomedical Informatics</i> , 2020, 102, 103356.	2.5	26
546	Validation of Pulse Transit Time Based Blood Pressure Estimation on Atrial Fibrillation Patients. , 2020, 2020, 2679-2682.		1

#	ARTICLE	IF	CITATIONS
547	The role of waveform monitoring in Sepsis identification within the first hour of Intensive Care Unit stay. , 2020, , .		7
548	Clinical Predictive Keyboard using Statistical and Neural Language Modeling. , 2020, , .		1
549	Prediction of Septic Shock Onset in ICU by Instantaneous Monitoring of Vital Signs. , 2020, 2020, 2768-2771.		7
550	Semantic Embeddings for Medical Providers and Fraud Detection. , 2020, , .		4
551	Neural ODEs for Informative Missingness in Multivariate Time Series. , 2020, , .		3
552	Using machine learning methods to predict in-hospital mortality of sepsis patients in the ICU. BMC Medical Informatics and Decision Making, 2020, 20, 251.	1.5	80
553	Multi-Ontology Refined Embeddings (MORE): A hybrid multi-ontology and corpus-based semantic representation model for biomedical concepts. Journal of Biomedical Informatics, 2020, 111, 103581.	2.5	7
554	Survival prediction of patients with sepsis from age, sex, and septic episode number alone. Scientific Reports, 2020, 10, 17156.	1.6	24
555	Democratizing EHR analyses with FIDDLE: a flexible data-driven preprocessing pipeline for structured clinical data. Journal of the American Medical Informatics Association: JAMIA, 2020, 27, 1921-1934.	2.2	39
556	A statistically rigorous deep neural network approach to predict mortality in trauma patients admitted to the intensive care unit. Journal of Trauma and Acute Care Surgery, 2020, 89, 736-742.	1.1	25
557	Red Blood Cell Distribution Width as a Predictor of 28â€œDay Mortality in Critically Ill Patients With Alcohol Use Disorder. Alcoholism: Clinical and Experimental Research, 2020, 44, 2555-2560.	1.4	3
558	Artificial Intelligence in Subspecialties. , 2020, , 267-396.		1
559	Preliminary Results on Density Poincare Plot Based Atrial Fibrillation Detection from Premature Atrial/Ventricular Contractions. , 2020, 2020, 2594-2597.		3
560	Employing Differentiable Neural Computers for Image Captioning and Neural Machine Translation. Procedia Computer Science, 2020, 173, 234-244.	1.2	10
561	Toward a hemorrhagic trauma severity score: fusing five physiological biomarkers. Journal of Translational Medicine, 2020, 18, 348.	1.8	9
562	Classification of Biomedical Texts for Cardiovascular Diseases with Deep Neural Network Using a Weighted Feature Representation Method. Healthcare (Switzerland), 2020, 8, 392.	1.0	5
563	Healthcare Transformation in Singapore With Artificial Intelligence. Frontiers in Digital Health, 2020, 2, 592121.	1.5	4
564	Rapid declines in systolic blood pressure are associated with an increase in pulse transit time. PLoS ONE, 2020, 15, e0240126.	1.1	5

#	ARTICLE	IF	CITATIONS
565	Statistical Analysis of Inter-attribute Relationships in Unfractionated Heparin Injection Problems. , 2020, 2020, 5374-5377.		0
566	Development of data dictionary for neonatal intensive care unit: advancement towards a better critical care unit. JAMIA Open, 2020, 3, 21-30.	1.0	7
567	Utilization of Deep Learning for Subphenotype Identification in Sepsis-Associated Acute Kidney Injury. Clinical Journal of the American Society of Nephrology: CJASN, 2020, 15, 1557-1565.	2.2	59
568	Sampling methods and feature selection for mortality prediction with neural networks. Journal of Biomedical Informatics, 2020, 111, 103580.	2.5	4
569	Positive association between systemic immune-inflammatory index and mortality of cardiogenic shock. Clinica Chimica Acta, 2020, 511, 97-103.	0.5	13
570	Clinical concept normalization with a hybrid natural language processing system combining multilevel matching and machine learning ranking. Journal of the American Medical Informatics Association: JAMIA, 2020, 27, 1576-1584.	2.2	6
571	Reinforcement learning for intelligent healthcare applications: A survey. Artificial Intelligence in Medicine, 2020, 109, 101964.	3.8	130
572	A deep learning solution to recommend laboratory reduction strategies in ICU. International Journal of Medical Informatics, 2020, 144, 104282.	1.6	9
573	RAHM: Relation augmented hierarchical multi-task learning framework for reasonable medication stocking. Journal of Biomedical Informatics, 2020, 108, 103502.	2.5	7
574	DDxNet: a deep learning model for automatic interpretation of electronic health records, electrocardiograms and electroencephalograms. Scientific Reports, 2020, 10, 16428.	1.6	14
575	Generating sequential electronic health records using dual adversarial autoencoder. Journal of the American Medical Informatics Association: JAMIA, 2020, 27, 1411-1419.	2.2	27
576	Evaluation of patient-level retrieval from electronic health record data for a cohort discovery task. JAMIA Open, 2020, 3, 395-404.	1.0	7
577	Sensitivity of comorbidity network analysis. JAMIA Open, 2020, 3, 94-103.	1.0	8
578	GSIC: A New Interpretable System for Knowledge Exploration and Classification. IEEE Access, 2020, 8, 108544-108554.	2.6	2
579	Fold-stratified cross-validation for unbiased and privacy-preserving federated learning. Journal of the American Medical Informatics Association: JAMIA, 2020, 27, 1244-1251.	2.2	25
580	Red Blood Cell Distribution Width, Neutrophil-to-Lymphocyte Ratio, and In-Hospital Mortality in Dyspneic Patients Admitted to the Emergency Department. Disease Markers, 2020, 2020, 1-5.	0.6	3
581	Supervised-actor-critic reinforcement learning for intelligent mechanical ventilation and sedative dosing in intensive care units. BMC Medical Informatics and Decision Making, 2020, 20, 124.	1.5	17
582	Central venous pressure measurement is associated with improved outcomes in septic patients: an analysis of the MIMIC-III database. Critical Care, 2020, 24, 433.	2.5	31

#	ARTICLE	IF	CITATIONS
583	A Survey on Artificial Intelligence Techniques for Biomedical Image Analysis in Skeleton-Based Forensic Human Identification. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4703.	1.3	26
584	Performance evaluation of real-time stream processing systems for Internet of Things applications. <i>Future Generation Computer Systems</i> , 2020, 113, 207-217.	4.9	26
585	Towards unstructured mortality prediction with free-text clinical notes. <i>Journal of Biomedical Informatics</i> , 2020, 108, 103489.	2.5	14
586	Generation and evaluation of artificial mental health records for Natural Language Processing. <i>Npj Digital Medicine</i> , 2020, 3, 69.	5.7	32
587	“Yes, but will it work for my patients?” Driving clinically relevant research with benchmark datasets. <i>Npj Digital Medicine</i> , 2020, 3, 87.	5.7	13
588	Characterizing the Patients, Hospitals, and Data Quality of the eICU Collaborative Research Database*. <i>Critical Care Medicine</i> , 2020, 48, 1737-1743.	0.4	25
589	Precision medicine in anesthesiology. <i>International Anesthesiology Clinics</i> , 2020, 58, 17-22.	0.3	4
590	Vital Signs Prediction and Early Warning Score Calculation Based on Continuous Monitoring of Hospitalised Patients Using Wearable Technology. <i>Sensors</i> , 2020, 20, 6593.	2.1	16
591	Prognostic factors for patients with multiple myeloma admitted to the intensive care unit. <i>Hematology</i> , 2020, 25, 433-437.	0.7	1
592	Prediction of hypotension events with physiologic vital sign signatures in the intensive care unit. <i>Critical Care</i> , 2020, 24, 661.	2.5	22
593	The Neutrophil Percentage-to-Albumin Ratio as a New Predictor of All-Cause Mortality in Patients with Cardiogenic Shock. <i>BioMed Research International</i> , 2020, 2020, 1-12.	0.9	28
594	Real-time sepsis severity prediction on knowledge graph deep learning networks for the intensive care unit. <i>Journal of Visual Communication and Image Representation</i> , 2020, 72, 102901.	1.7	11
595	Reporting and Implementing Interventions Involving Machine Learning and Artificial Intelligence. <i>Annals of Internal Medicine</i> , 2020, 172, S137-S144.	2.0	64
596	Predicting the need for intubation in the first 24h after critical care admission using machine learning approaches. <i>Scientific Reports</i> , 2020, 10, 20931.	1.6	20
597	Facilitating the Development of Deep Learning Models with Visual Analytics for Electronic Health Records. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 8303.	1.2	5
598	The Veterans Affairs Precision Oncology Data Repository, a Clinical, Genomic, and Imaging Research Database. <i>Patterns</i> , 2020, 1, 100083.	3.1	10
599	Association between red blood cell distribution width and long-term mortality in acute respiratory failure patients. <i>Scientific Reports</i> , 2020, 10, 21185.	1.6	15
600	A Low-Cost Electronic System for Human-Body Communication. <i>Electronics (Switzerland)</i> , 2020, 9, 1928.	1.8	3

#	ARTICLE	IF	CITATIONS
601	Predicting 30-days mortality for MIMIC-III patients with sepsis-3: a machine learning approach using XGboost. <i>Journal of Translational Medicine</i> , 2020, 18, 462.	1.8	175
602	Deceased serum bilirubin and albumin levels in the assessment of severity and mortality in patients with acute pancreatitis. <i>International Journal of Medical Sciences</i> , 2020, 17, 2685-2695.	1.1	18
603	Perioperative Renoprotection: Clinical Implications. <i>Anesthesia and Analgesia</i> , 2020, 131, 1667-1678.	1.1	16
604	Prognostic Role of Ammonia in Critical Care Patients Without Known Hepatic Disease. <i>Frontiers in Medicine</i> , 2020, 7, 589825.	1.2	6
605	Automatic Classification System of Arrhythmias Using 12-Lead ECGs with a Deep Neural Network Based on an Attention Mechanism. <i>Symmetry</i> , 2020, 12, 1827.	1.1	15
606	A Comparison of Deep Learning Methods for ICD Coding of Clinical Records. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5262.	1.3	33
607	Supervised machine learning for the early prediction of acute respiratory distress syndrome (ARDS). <i>Journal of Critical Care</i> , 2020, 60, 96-102.	1.0	54
608	Prediction on critically ill patients: The role of "big data". <i>Journal of Critical Care</i> , 2020, 60, 64-68.	1.0	13
609	Temporal tree representation for similarity computation between medical patients. <i>Artificial Intelligence in Medicine</i> , 2020, 108, 101900.	3.8	16
610	Elevated serum iron level is a predictor of prognosis in ICU patients with acute kidney injury. <i>BMC Nephrology</i> , 2020, 21, 303.	0.8	6
611	Deep Contextualized Medical Concept Normalization in Social Media Text. <i>Procedia Computer Science</i> , 2020, 171, 1353-1362.	1.2	7
612	Red cell distribution width is correlated with all-cause mortality of patients in the coronary care unit. <i>Journal of International Medical Research</i> , 2020, 48, 030006052094131.	0.4	11
613	Machine learning for early detection of sepsis: an internal and temporal validation study. <i>JAMIA Open</i> , 2020, 3, 252-260.	1.0	56
614	Cloud Services for Patient Cohort Identification Using the Informatics for Integrating Biology and the Bedside Platform. <i>BioMed Research International</i> , 2020, 2020, 1-8.	0.9	0
615	Photoplethysmography based stratification of blood pressure using multi information fusion artificial neural network. , 2020, , .		6
616	A machine learning approach for mortality prediction only using non-invasive parameters. <i>Medical and Biological Engineering and Computing</i> , 2020, 58, 2195-2238.	1.6	18
617	A Machine Learning Approach for the Classification of Disease Risks in Time Series. , 2020, , .		3
618	Accelerating ophthalmic artificial intelligence research: the role of an open access data repository. <i>Current Opinion in Ophthalmology</i> , 2020, 31, 337-350.	1.3	18

#	ARTICLE	IF	CITATIONS
619	Atrial fibrillation predictor with reject option using belief functions theory. , 2020, , .		0
620	<p>The Association of Red Blood Cell Distribution Width to Platelet Count Ratio and 28-Day Mortality of Patients with Sepsis: A Retrospective Cohort Study</p>. Therapeutics and Clinical Risk Management, 2020, Volume 16, 999-1006.	0.9	9
621	Agile clinical research: A data science approach to scrumban in clinical medicine. Intelligence-based Medicine, 2020, 3-4, 100009.	1.4	4
622	A Comparative Performance Evaluation of Classification Algorithms for Clinical Decision Support Systems. Mathematics, 2020, 8, 1814.	1.1	13
623	Joint Medical Ontology Representation Learning for Healthcare Predictions. , 2020, , .		0
624	Context-Aware Time Series Imputation for Multi-Analyte Clinical Data. Journal of Healthcare Informatics Research, 2020, 4, 411-426.	5.3	4
625	Automatic classification of scanned electronic health record documents. International Journal of Medical Informatics, 2020, 144, 104302.	1.6	27
626	Serum anion gap at admission predicts all-cause mortality in critically ill patients with cerebral infarction: evidence from the MIMIC-III database. Biomarkers, 2020, 25, 725-732.	0.9	24
627	Effects of Fluid Resuscitation on the Occurrence of Organ Failure and Mortality in Patients With Acute Pancreatitis. Pancreas, 2020, 49, 1315-1320.	0.5	2
628	DeepConsensus: Consensus-based Interpretable Deep Neural Networks with Application to Mortality Prediction. , 2020, 2020, .		4
629	Clinical concept extraction using transformers. Journal of the American Medical Informatics Association: JAMIA, 2020, 27, 1935-1942.	2.2	71
630	Association between Body Mass Index and Short-Term Clinical Outcomes in Critically Ill Patients with Sepsis: A Real-World Study. BioMed Research International, 2020, 2020, 1-9.	0.9	7
631	Impact of Fluid Balance on Mortality Is Mediated by Fluid Accumulation Index in Sepsis: A Cohort Study. Journal of Intensive Care Medicine, 2020, 36, 088506662096062.	1.3	5
632	Artificial intelligence in orthopaedics: false hope or not? A narrative review along the line of Gartnerâ€™s hype cycle. EFORT Open Reviews, 2020, 5, 593-603.	1.8	44
633	Comparison of Chest Radiograph Interpretations by Artificial Intelligence Algorithm vs Radiology Residents. JAMA Network Open, 2020, 3, e2022779.	2.8	86
634	KAICD: A knowledge attention-based deep learning framework for automatic ICD coding. Neurocomputing, 2022, 469, 376-383.	3.5	19
635	A Resource-Optimized Patient-Specific Nonlinear-SVM Hypertension Detection Algorithm for Minimally-Invasive High Blood Pressure Control. , 2020, , .		0
636	Explainable Uncertainty-Aware Convolutional Recurrent Neural Network for Irregular Medical Time Series. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 4665-4679.	7.2	17

#	ARTICLE	IF	CITATIONS
637	Exploring Clinical Time Series Forecasting with Meta-Features in Variational Recurrent Models. , 2020, , ,		1
638	Towards Extracting Absolute Event Timelines From English Clinical Reports. IEEE/ACM Transactions on Audio Speech and Language Processing, 2020, 28, 2710-2719.	4.0	7
639	Association of Acidemia With Short-Term Mortality of Acute Myocardial Infarction: A Retrospective Study Base on MIMIC-III Database. Clinical and Applied Thrombosis/Hemostasis, 2020, 26, 107602962095083.	0.7	7
640	Predicting Length of Stay for Cardiovascular Hospitalizations in the Intensive Care Unit: Machine Learning Approach. , 2020, 2020, 5442-5445.		22
641	A new analytical framework for missing data imputation and classification with uncertainty: Missing data imputation and heart failure readmission prediction. PLoS ONE, 2020, 15, e0237724.	1.1	15
642	Utilizing imbalanced electronic health records to predict acute kidney injury by ensemble learning and time series model. BMC Medical Informatics and Decision Making, 2020, 20, 238.	1.5	17
643	AIDEx - An Open-source Platform for Real-Time Forecasting Sepsis and A Case Study on Taking ML Algorithms to Production. , 2020, 2020, 5610-5614.		9
644	Predicting Mortality in Critical Care Patients with Fungemia Using Structured and Unstructured Data*. , 2020, 2020, 5459-5463.		3
645	From Patient Engagement to Precision Oncology: Leveraging Informatics to Advance Cancer Care. Yearbook of Medical Informatics, 2020, 29, 235-242.	0.8	8
646	A Machine Learning Early Warning System: Multicenter Validation in Brazilian Hospitals. , 2020, , .		6
647	A Time-Critical Topic Model for Predicting the Survival Time of Sepsis Patients. Scientific Programming, 2020, 2020, 1-13.	0.5	2
648	Critical care echocardiography: diagnostic or prognostic?. Annals of Translational Medicine, 2020, 8, 909-909.	0.7	1
649	A Machine Learning-Based Prediction of Hospital Mortality in Patients With Postoperative Sepsis. Frontiers in Medicine, 2020, 7, 445.	1.2	45
650	Anion Gap Was Associated with Inhospital Mortality and Adverse Clinical Outcomes of Coronary Care Unit Patients. BioMed Research International, 2020, 2020, 1-11.	0.9	14
651	Generalizable deep temporal models for predicting episodes of sudden hypotension in critically ill patients: a personalized approach. Scientific Reports, 2020, 10, 11480.	1.6	10
652	Piloting a model-to-data approach to enable predictive analytics in health care through patient mortality prediction. Journal of the American Medical Informatics Association: JAMIA, 2020, 27, 1393-1400.	2.2	6
653	Practical Machine Learning-Based Sepsis Prediction. , 2020, 2020, 4986-4991.		7
654	Association between Neutrophil Percentage-to-Albumin Ratio and All-Cause Mortality in Critically Ill Patients with Coronary Artery Disease. BioMed Research International, 2020, 2020, 1-12.	0.9	20

#	ARTICLE	IF	CITATIONS
655	Synthetic photoplethysmogram generation using two Gaussian functions. <i>Scientific Reports</i> , 2020, 10, 13883.	1.6	33
656	Recommendations for improving national clinical datasets for health equity research. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2020, 27, 1802-1807.	2.2	7
657	A Dynamic Updating Method for Release of Privacy Protected Data Based on Privacy Differences in Relational Data. , 2020, , .		0
658	CAS: corpus of clinical cases in French. <i>Journal of Biomedical Semantics</i> , 2020, 11, 7.	0.9	7
659	Explainable Prediction of Medical Codes With Knowledge Graphs. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 867.	2.0	27
660	Automatic Process Comparison for Subpopulations: Application in Cancer Care. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 5707.	1.2	5
661	A Decision Support Method for Prehospital Emergency Care Based on Ranking the Importance of Physiological Variables. <i>Healthcare (Switzerland)</i> , 2020, 8, 295.	1.0	0
662	Predicting Missing Values in Medical Data Via XGBoost Regression. <i>Journal of Healthcare Informatics Research</i> , 2020, 4, 383-394.	5.3	58
663	Adapting and evaluating a deep learning language model for clinical why-question answering. <i>JAMIA Open</i> , 2020, 3, 16-20.	1.0	17
664	Semi-supervised joint learning for longitudinal clinical events classification using neural network models. <i>Stat</i> , 2020, 9, e305.	0.3	1
665	Medical Information Extraction in the Age of Deep Learning. <i>Yearbook of Medical Informatics</i> , 2020, 29, 208-220.	0.8	46
666	Cross-Domain Missingness-Aware Time-Series Adaptation With Similarity Distillation in Medical Applications. <i>IEEE Transactions on Cybernetics</i> , 2022, 52, 3394-3407.	6.2	7
667	Word embeddings for biomedical natural language processing: A survey. <i>Language and Linguistics Compass</i> , 2020, 14, e12402.	1.3	10
668	Hyperchloremia in critically ill patients: association with outcomes and prediction using electronic health record data. <i>BMC Medical Informatics and Decision Making</i> , 2020, 20, 302.	1.5	8
669	Continuous Non-Invasive Blood Pressure Monitoring: A Methodological Review on Measurement Techniques. <i>IEEE Access</i> , 2020, 8, 212478-212498.	2.6	28
670	Continuous and automatic mortality risk prediction using vital signs in the intensive care unit: a hybrid neural network approach. <i>Scientific Reports</i> , 2020, 10, 21282.	1.6	22
671	Convex Parameter Recovery for Interacting Marked Processes. <i>IEEE Journal on Selected Areas in Information Theory</i> , 2020, 1, 799-813.	1.9	3
672	Development and Verification of a Digital Twin Patient Model to Predict Specific Treatment Response During the First 24 Hours of Sepsis. , 2020, 2, e0249.		30

#	ARTICLE	IF	CITATIONS
673	Deep Learning for Diabetes: A Systematic Review. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 2744-2757.	3.9	89
674	Fluctuations of driving pressure during mechanical ventilation indicates elevated central venous pressure and poor outcomes. Pulmonary Circulation, 2020, 10, 1-8.	0.8	2
675	Fostering reproducibility and generalizability in machine learning for clinical prediction modeling in spine surgery. Spine Journal, 2021, 21, 1610-1616.	0.6	22
676	A semantic relationship mining method among disorders, genes, and drugs from different biomedical datasets. BMC Medical Informatics and Decision Making, 2020, 20, 283.	1.5	5
677	Association Between ICU-Acquired Hyponatremia and In-Hospital Mortality: Data From the Medical Information Mart for Intensive Care III and the Electronic ICU Collaborative Research Database. , 2020, 2, e0304.		18
678	Maximum blood glucose levels during hospitalisation to predict mortality in patients with acute coronary syndrome: a retrospective cohort study. BMJ Open, 2020, 10, e042316.	0.8	5
679	Sensitive attribute privacy preservation of trajectory data publishing based on l-diversity. Distributed and Parallel Databases, 2021, 39, 785-811.	1.0	10
680	GAM feature selection to discover predominant factors for mortality of weekend and weekday admission to the ICUs. Smart Health, 2020, 18, 100145.	2.0	1
681	Serum Anion Gap Is Associated with All-Cause Mortality among Critically Ill Patients with Congestive Heart Failure. Disease Markers, 2020, 2020, 1-10.	0.6	17
682	Evaluation of Automated Public De-Identification Tools on a Corpus of Radiology Reports. Radiology: Artificial Intelligence, 2020, 2, e190137.	3.0	9
683	A Nuisance-Free Inference Procedure Accounting for the Unknown Missingness with Application to Electronic Health Records. Entropy, 2020, 22, 1154.	1.1	1
684	A Generalized Signal Quality Estimation Method for IoT Sensors. , 2020, , .		5
685	Multi-Label Classification of ICD Coding Using Deep Learning. , 2020, , .		5
686	<p>Impacts of Comorbid Chronic Obstructive Pulmonary Disease and Congestive Heart Failure on Prognosis of Critically Ill Patients</p>. International Journal of COPD, 2020, Volume 15, 2707-2714.	0.9	1
687	Association between neutrophil-to-albumin ratio and mortality in patients with cardiogenic shock: a retrospective cohort study. BMJ Open, 2020, 10, e039860.	0.8	18
688	De-identifying free text of Japanese electronic health records. Journal of Biomedical Semantics, 2020, 11, 11.	0.9	3
689	PPGSynth: An Innovative Toolbox for Synthesizing Regular and Irregular Photoplethysmography Waveforms. Frontiers in Medicine, 2020, 7, 597774.	1.2	13
690	Synthesizing Quality Open Data Assets from Private Health Research Studies. Lecture Notes in Business Information Processing, 2020, , 324-335.	0.8	8

#	ARTICLE	IF	CITATIONS
691	Premature Atrial and Ventricular Contraction Detection Using Photoplethysmographic Data from a Smartwatch. <i>Sensors</i> , 2020, 20, 5683.	2.1	29
692	Prediction of breast cancer distant recurrence using natural language processing and knowledge-guided convolutional neural network. <i>Artificial Intelligence in Medicine</i> , 2020, 110, 101977.	3.8	50
693	Supervised Machine-Learning Algorithms in Real-time Prediction of Hypotensive Events. , 2020, 2020, 5468-5471.		4
694	Combining structured and unstructured data for predictive models: a deep learning approach. <i>BMC Medical Informatics and Decision Making</i> , 2020, 20, 280.	1.5	99
695	Mortality prediction model for the triage of COVID-19, pneumonia, and mechanically ventilated ICU patients: A retrospective study. <i>Annals of Medicine and Surgery</i> , 2020, 59, 207-216.	0.5	55
696	The Viral Infection and Respiratory Illness Universal Study (VIRUS): An International Registry of Coronavirus 2019-Related Critical Illness. , 2020, 2, e0113.		75
697	Data Resource Profile: Regional healthcare information platform in Halland, Sweden. <i>International Journal of Epidemiology</i> , 2020, 49, 738-739f.	0.9	30
698	TAPER: Time-Aware Patient EHR Representation. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020, 24, 3268-3275.	3.9	36
699	Incidence and Risk Model Development for Severe Tachypnea Following Terminal Extubation. <i>Chest</i> , 2020, 158, 1456-1463.	0.4	10
700	Regression of survival data via twin support vector regression. <i>Communications in Statistics Part B: Simulation and Computation</i> , 2020, , 1-13.	0.6	2
701	Cross-Domain Joint Dictionary Learning for ECG Reconstruction from PPG. , 2020, , .		14
702	CHEER: Rich Model Helps Poor Model via Knowledge Infusion. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2022, 34, 531-543.	4.0	1
703	Imputation of Missing Data in Electronic Health Records Based on Patientsâ€™ Similarities. <i>Journal of Healthcare Informatics Research</i> , 2020, 4, 295-307.	5.3	13
704	Temporal matrix completion with locally linear latent factors for medical applications. <i>Artificial Intelligence in Medicine</i> , 2020, 107, 101883.	3.8	2
705	Angiotensinâ€ converting enzyme inhibitors and angiotensin II receptor blockers are not associated with severe <sc>COVIDâ€19</sc> infection in a multiâ€site <sc>UK</sc> acute hospital trust. <i>European Journal of Heart Failure</i> , 2020, 22, 967-974.	2.9	163
706	Genetic underpinnings of cerebral edema in acute brain injury: an opportunity for pathway discovery. <i>Neuroscience Letters</i> , 2020, 730, 135046.	1.0	9
707	Pulmonary hypertension with adult respiratory distress syndrome: prevalence, clinical impact, and association with central venous pressure. <i>Pulmonary Circulation</i> , 2020, 10, 1-8.	0.8	8
708	Nomogram to predict the risk of septic acute kidney injury in the first 24â€h of admission: an analysis of intensive care unit data. <i>Renal Failure</i> , 2020, 42, 428-436.	0.8	26

#	ARTICLE	IF	CITATIONS
709	Using word embeddings to improve the privacy of clinical notes. Journal of the American Medical Informatics Association: JAMIA, 2020, 27, 901-907.	2.2	8
710	Atrial Fibrillation Detection During Sepsis: Study on MIMIC III ICU Data. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 3124-3135.	3.9	32
711	Optimal Initial Blood Pressure in Intensive Care Unit Patients with Non-Traumatic Intracranial Hemorrhage. International Journal of Environmental Research and Public Health, 2020, 17, 3436.	1.2	1
712	Harmonized representation learning on dynamic EHR graphs. Journal of Biomedical Informatics, 2020, 106, 103426.	2.5	23
713	Joint imbalanced classification and feature selection for hospital readmissions. Knowledge-Based Systems, 2020, 200, 106020.	4.0	65
714	Management of ARDS: From ventilation strategies to intelligent technical support – Connecting the dots. Trends in Anaesthesia and Critical Care, 2020, 34, 50-58.	0.4	4
715	Inferring multimodal latent topics from electronic health records. Nature Communications, 2020, 11, 2536.	5.8	40
716	A Review of Predictive Analytics Solutions for Sepsis Patients. Applied Clinical Informatics, 2020, 11, 387-398.	0.8	19
717	Predicting severe clinical events by learning about life-saving actions and outcomes using distant supervision. Journal of Biomedical Informatics, 2020, 107, 103425.	2.5	5
718	In-hospital Mortality Prediction for ICU Patients on Large Healthcare MIMIC Datasets Using Class Imbalance Learning. , 2020, , .		4
719	The weekend effect for stroke patients admitted to intensive care: A retrospective cohort analysis. PLoS ONE, 2020, 15, e0234521.	1.1	3
720	Progress Indication for Deep Learning Model Training: A Feasibility Demonstration. IEEE Access, 2020, 8, 79811-79843.	2.6	7
721	FasTag: Automatic text classification of unstructured medical narratives. PLoS ONE, 2020, 15, e0234647.	1.1	23
722	Science Without Conscience Is but the Ruin of the Soul: The Ethics of Big Data and Artificial Intelligence in Perioperative Medicine. Anesthesia and Analgesia, 2020, 130, 1234-1243.	1.1	21
723	The association between neutrophil-to-lymphocyte count ratio and mortality in septic patients: a retrospective analysis of the MIMIC-III database. Journal of Thoracic Disease, 2020, 12, 1843-1855.	0.6	18
724	Monitoring Big Data During Mechanical Ventilation in the ICU. Respiratory Care, 2020, 65, 894-910.	0.8	7
725	Data sharing in the era of COVID-19. The Lancet Digital Health, 2020, 2, e224.	5.9	58
726	Association of delayed time in the emergency department with the clinical outcomes for critically ill patients. QJM - Monthly Journal of the Association of Physicians, 2021, 114, 311-317.	0.2	11

#	ARTICLE	IF	CITATIONS
727	A Multi-directional Approach for Missing Value Estimation in Multivariate Time Series Clinical Data. <i>Journal of Healthcare Informatics Research</i> , 2020, 4, 365-382.	5.3	9
728	Dr. Agent: Clinical predictive model via mimicked second opinions. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2020, 27, 1084-1091.	2.2	8
729	Anonymization Through Data Synthesis Using Generative Adversarial Networks (ADS-GAN). <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020, 24, 2378-2388.	3.9	82
730	Matching with Text Data: An Experimental Evaluation of Methods for Matching Documents and of Measuring Match Quality. <i>Political Analysis</i> , 2020, 28, 445-468.	2.8	27
731	Lactate indices as predictors of in-hospital mortality or 90-day survival after admission to an intensive care unit in unselected critically ill patients. <i>PLoS ONE</i> , 2020, 15, e0229135.	1.1	22
732	ICU management based on big data. <i>Current Opinion in Anaesthesiology</i> , 2020, 33, 162-169.	0.9	5
733	An evaluation of time series summary statistics as features for clinical prediction tasks. <i>BMC Medical Informatics and Decision Making</i> , 2020, 20, 48.	1.5	19
734	Prediction modeling—part 1: regression modeling. <i>Kidney International</i> , 2020, 97, 877-884.	2.6	17
735	Early prediction of circulatory failure in the intensive care unit using machine learning. <i>Nature Medicine</i> , 2020, 26, 364-373.	15.2	204
736	Evaluating sentence representations for biomedical text: Methods and experimental results. <i>Journal of Biomedical Informatics</i> , 2020, 104, 103396.	2.5	25
737	Red blood cell distribution width predicts long-term mortality in critically ill patients with acute kidney injury: a retrospective database study. <i>Scientific Reports</i> , 2020, 10, 4563.	1.6	30
738	Acidosis predicts mortality independently from hyperlactatemia in patients with sepsis. <i>European Journal of Internal Medicine</i> , 2020, 76, 76-81.	1.0	27
739	Association between furosemide administration and outcomes in critically ill patients with acute kidney injury. <i>Critical Care</i> , 2020, 24, 75.	2.5	59
740	Continuous blood pressure measurement from one-channel electrocardiogram signal using deep-learning techniques. <i>Artificial Intelligence in Medicine</i> , 2020, 108, 101919.	3.8	78
741	Digital microbiology. <i>Clinical Microbiology and Infection</i> , 2020, 26, 1324-1331.	2.8	20
742	Long-Term Prognosis of Older Adults Who Survive Emergency Mechanical Ventilation. <i>Journal of Pain and Symptom Management</i> , 2020, 60, 1019-1026.	0.6	4
743	Deep Learning for Cardiovascular Risk Stratification. <i>Current Treatment Options in Cardiovascular Medicine</i> , 2020, 22, 1.	0.4	12
744	Testing House of God's Law VII: Was the Fat Man Right?. <i>Journal of Intensive Care Medicine</i> , 2020, 35, 1141-1142.	1.3	0

#	ARTICLE	IF	CITATIONS
745	Real-world characterization of blood glucose control and insulin use in the intensive care unit. <i>Scientific Reports</i> , 2020, 10, 10718.	1.6	18
746	Benchmarking machine learning models on multi-centre eICU critical care dataset. <i>PLoS ONE</i> , 2020, 15, e0235424.	1.1	37
747	Development of a nomogram to predict 30-day mortality of patients with sepsis-associated encephalopathy: a retrospective cohort study. <i>Journal of Intensive Care</i> , 2020, 8, 45.	1.3	44
748	Objective Pain Assessment Using Vital Signs. <i>Procedia Computer Science</i> , 2020, 170, 947-952.	1.2	3
749	Sparse multi-output Gaussian processes for online medical time series prediction. <i>BMC Medical Informatics and Decision Making</i> , 2020, 20, 152.	1.5	26
750	A primer on artificial intelligence for the paediatric cardiologist. <i>Cardiology in the Young</i> , 2020, 30, 934-945.	0.4	12
751	Comparative visual analytics for assessing medical records with sequence embedding. <i>Visual Informatics</i> , 2020, 4, 72-85.	2.5	27
752	Survey on categorical data for neural networks. <i>Journal of Big Data</i> , 2020, 7, .	6.9	225
753	A narrative review of pharmacologic de-resuscitation in the critically ill. <i>Journal of Critical Care</i> , 2020, 59, 156-162.	1.0	8
754	Real-world data medical knowledge graph: construction and applications. <i>Artificial Intelligence in Medicine</i> , 2020, 103, 101817.	3.8	127
755	A machine-learning approach to predicting hypotensive events in ICU settings. <i>Computers in Biology and Medicine</i> , 2020, 118, 103626.	3.9	23
756	Fluid-limiting treatment strategies among sepsis patients in the ICU: a retrospective causal analysis. <i>Critical Care</i> , 2020, 24, 62.	2.5	7
757	<p>Association Between Comorbid Chronic Obstructive Pulmonary Disease and Prognosis of Patients Admitted to the Intensive Care Unit for Non-COPD Reasons: A Retrospective Cohort Study</p>. <i>International Journal of COPD</i> , 2020, Volume 15, 279-287.	0.9	4
758	Analysis of electronic health records based on long short-term memory. <i>Concurrency Computation Practice and Experience</i> , 2020, 32, e5684.	1.4	3
759	Preserving differential privacy in deep neural networks with relevance-based adaptive noise imposition. <i>Neural Networks</i> , 2020, 125, 131-141.	3.3	35
760	Expert-augmented machine learning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 4571-4577.	3.3	68
761	A customizable deep learning model for nosocomial risk prediction from critical care notes with indirect supervision. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2020, 27, 567-576.	2.2	17
762	Genetic Variation and Response to Neurocritical Illness: a Powerful Approach to Identify Novel Pathophysiological Mechanisms and Therapeutic Targets. <i>Neurotherapeutics</i> , 2020, 17, 581-592.	2.1	3

#	ARTICLE	IF	CITATIONS
763	Machine learning in infection management using routine electronic health records: tools, techniques, and reporting of future technologies. <i>Clinical Microbiology and Infection</i> , 2020, 26, 1291-1299.	2.8	61
764	The CLASSE GATOR (CLinical Acronym SenSE disambiGuATOR): A Method for predicting acronym sense from neonatal clinical notes. <i>International Journal of Medical Informatics</i> , 2020, 137, 104101.	1.6	4
765	Prediction of Ankle Brachial Index with Photoplethysmography Using Convolutional Long Short Term Memory. <i>Journal of Medical and Biological Engineering</i> , 2020, 40, 282-291.	1.0	7
766	The Neutrophil Percentage-to-Albumin Ratio Is Associated with All-Cause Mortality in Critically Ill Patients with Acute Kidney Injury. <i>BioMed Research International</i> , 2020, 2020, 1-9.	0.9	27
767	Brief introduction of medical database and data mining technology in big data era. <i>Journal of Evidence-Based Medicine</i> , 2020, 13, 57-69.	0.7	332
768	A Combined Interpolation and Weighted K-Nearest Neighbours Approach for the Imputation of Longitudinal ICU Laboratory Data. <i>Journal of Healthcare Informatics Research</i> , 2020, 4, 174-188.	5.3	15
769	Fusion enhancement for tracking of respiratory rate through intrinsic mode functions in photoplethysmography. <i>Biomedical Signal Processing and Control</i> , 2020, 59, 101887.	3.5	8
770	Predict or draw blood: An integrated method to reduce lab tests. <i>Journal of Biomedical Informatics</i> , 2020, 104, 103394.	2.5	13
771	Predicting Infections Using Computational Intelligence – A Systematic Review. <i>IEEE Access</i> , 2020, 8, 31083-31102.	2.6	20
772	A review of Automatic end-to-end De-Identification: Is High Accuracy the Only Metric?. <i>Applied Artificial Intelligence</i> , 2020, 34, 251-269.	2.0	12
773	Serum Anion Gap Predicts All-Cause Mortality in Critically Ill Patients with Acute Kidney Injury: Analysis of the MIMIC-III Database. <i>Disease Markers</i> , 2020, 2020, 1-10.	0.6	32
774	Diagnostic and prognostic value of red blood cell distribution width in sepsis: A narrative review. <i>Clinical Biochemistry</i> , 2020, 77, 1-6.	0.8	69
775	Prognostic value of an inflammatory biomarker-based clinical algorithm in septic patients in the emergency department: An observational study. <i>International Immunopharmacology</i> , 2020, 80, 106145.	1.7	24
776	Data initiatives supporting critical care research and quality improvement in Canada: an environmental scan and narrative review. <i>Canadian Journal of Anaesthesia</i> , 2020, 67, 475-484.	0.7	4
777	Variable selection and estimation in causal inference using Bayesian spike and slab priors. <i>Statistical Methods in Medical Research</i> , 2020, 29, 2445-2469.	0.7	7
778	On classifying sepsis heterogeneity in the ICU: insight using machine learning. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2020, 27, 437-443.	2.2	36
779	Benchmarking Deep Learning Architectures for Predicting Readmission to the ICU and Describing Patients-at-Risk. <i>Scientific Reports</i> , 2020, 10, 1111.	1.6	51
780	A Practical Approach to Artificial Intelligence in Plastic Surgery. <i>Aesthetic Surgery Journal Open Forum</i> , 2020, 2, oja001.	0.5	17

#	ARTICLE	IF	CITATIONS
781	PIC, a paediatric-specific intensive care database. <i>Scientific Data</i> , 2020, 7, 14.	2.4	53
782	medExtractR: A targeted, customizable approach to medication extraction from electronic health records. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2020, 27, 407-418.	2.2	15
783	Deep Natural Language Processing Identifies Variation in Care Preference Documentation. <i>Journal of Pain and Symptom Management</i> , 2020, 59, 1186-1194.e3.	0.6	21
784	IDDSAM: An Integrated Disease Diagnosis and Severity Assessment Model for Intensive Care Units. <i>IEEE Access</i> , 2020, 8, 15423-15435.	2.6	6
785	Combining deep learning with token selection for patient phenotyping from electronic health records. <i>Scientific Reports</i> , 2020, 10, 1432.	1.6	36
786	Customization scenarios for de-identification of clinical notes. <i>BMC Medical Informatics and Decision Making</i> , 2020, 20, 14.	1.5	19
787	A new method for identifying the acute respiratory distress syndrome disease based on noninvasive physiological parameters. <i>PLoS ONE</i> , 2020, 15, e0226962.	1.1	20
788	Hypochloremia is associated with increased risk of all-cause mortality in patients in the coronary care unit: A cohort study. <i>Journal of International Medical Research</i> , 2020, 48, 030006052091150.	0.4	8
790	Information Bottleneck for Estimating Treatment Effects with Systematically Missing Covariates. <i>Entropy</i> , 2020, 22, 389.	1.1	8
791	Deep learning with sentence embeddings pre-trained on biomedical corpora improves the performance of finding similar sentences in electronic medical records. <i>BMC Medical Informatics and Decision Making</i> , 2020, 20, 73.	1.5	15
792	Vital-sign circadian rhythms in patients prior to discharge from an ICU: a retrospective observational analysis of routinely recorded physiological data. <i>Critical Care</i> , 2020, 24, 181.	2.5	19
793	Analysis of adult disease characteristics and mortality on MIMIC-III. <i>PLoS ONE</i> , 2020, 15, e0232176.	1.1	14
794	Multimodal Neurological Monitoring. , 2020, , 10-19.		0
795	Effect of virtual reality meditation on sleep quality of intensive care unit patients: A randomised controlled trial. <i>Intensive and Critical Care Nursing</i> , 2020, 59, 102849.	1.4	38
796	Automated ICD coding via unsupervised knowledge integration (UNITE). <i>International Journal of Medical Informatics</i> , 2020, 139, 104135.	1.6	17
797	A visual analytics system for multi-model comparison on clinical data predictions. <i>Visual Informatics</i> , 2020, 4, 122-131.	2.5	21
798	Increased neutrophil percentage-to-albumin ratio is associated with all-cause mortality in patients with severe sepsis or septic shock. <i>Epidemiology and Infection</i> , 2020, 148, e87.	1.0	46
799	A Revised Point-to-Point Calibration Approach with Adaptive Errors Correction to Weaken Initial Sensitivity of Cuff-Less Blood Pressure Estimation. <i>Sensors</i> , 2020, 20, 2205.	2.1	14

#	ARTICLE	IF	CITATIONS
800	Feature engineering with clinical expert knowledge: A case study assessment of machine learning model complexity and performance. PLoS ONE, 2020, 15, e0231300.	1.1	22
801	Harnessing Big Data in Neurocritical Care in the Era of Precision Medicine. Current Treatment Options in Neurology, 2020, 22, 1.	0.7	16
802	<p>Association Between Blood Glucose Within 24 Hours After Intensive Care Unit Admission and Prognosis: A Retrospective Cohort Study</p>. Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy, 2020, Volume 13, 1305-1315.	1.1	4
803	Evaluation of blood pressure estimation models based on pulse arrival time. Computers and Electrical Engineering, 2020, 84, 106616.	3.0	10
804	A machine learning-based model for 1-year mortality prediction in patients admitted to an Intensive Care Unit with a diagnosis of sepsis. Medicina Intensiva (English Edition), 2020, 44, 160-170.	0.1	2
805	Estimation and Tracking of Blood Pressure Using Routinely Acquired Photoplethysmographic Signals and Deep Neural Networks. , 2020, 2, e0095.		11
806	Exploiting sequence labeling framework to extract document-level relations from biomedical texts. BMC Bioinformatics, 2020, 21, 125.	1.2	10
807	LoAdaBoost: Loss-based AdaBoost federated machine learning with reduced computational complexity on IID and non-IID intensive care data. PLoS ONE, 2020, 15, e0230706.	1.1	80
808	Generation and evaluation of privacy preserving synthetic health data. Neurocomputing, 2020, 416, 244-255.	3.5	69
809	Validation process of a highâ€resolution database in a paediatric intensive care unitâ€Describing the perpetual patient's validation. Journal of Evaluation in Clinical Practice, 2021, 27, 316-324.	0.9	6
810	The incidence and outcome of severe hyperlactatemia in critically ill patients. Internal and Emergency Medicine, 2021, 16, 115-123.	1.0	21
811	Prognostic value of neutrophilâ€lymphocyte ratio in critically ill patients with cancer: a propensity score matching study. Clinical and Translational Oncology, 2021, 23, 139-147.	1.2	7
812	The characteristics and outcomes of patients with idiopathic pulmonary fibrosis admitted to the ICU with acute respiratory failure. Heart and Lung: Journal of Acute and Critical Care, 2021, 50, 192-196.	0.8	6
813	A boosting inspired personalized threshold method for sepsis screening. Journal of Applied Statistics, 2021, 48, 154-175.	0.6	0
814	Novel Density PoincarÃ© Plot Based Machine Learning Method to Detect Atrial Fibrillation From Premature Atrial/Ventricular Contractions. IEEE Transactions on Biomedical Engineering, 2021, 68, 448-460.	2.5	39
815	Efficacy and safety of corticosteroids for septic shock in immunocompromised patients: A cohort study from MIMIC. American Journal of Emergency Medicine, 2021, 42, 121-126.	0.7	15
816	Adversarially regularized medication recommendation model with multi-hop memory network. Knowledge and Information Systems, 2021, 63, 125-142.	2.1	18
817	Automatic generation of minimum dataset and quality indicators from data collected routinely by the clinical information system in an intensive care unit. International Journal of Medical Informatics, 2021, 145, 104327.	1.6	6

#	ARTICLE	IF	CITATIONS
818	Arterial oxygen pressure targets in critically ill patients: Analysis of a large ICU database. Heart and Lung: Journal of Acute and Critical Care, 2021, 50, 220-225.	0.8	2
819	Artificial Intelligence in the Intensive Care Unit. Seminars in Respiratory and Critical Care Medicine, 2021, 42, 002-009.	0.8	24
820	A hybrid machine learning framework to predict mortality in paralytic ileus patients using electronic health records (EHRs). Journal of Ambient Intelligence and Humanized Computing, 2021, 12, 3283-3293.	3.3	34
821	Scores to Predict Long-term Mortality in Patients With Severe Pneumonia Still Lacking. Clinical Infectious Diseases, 2021, 72, e442-e443.	2.9	7
822	Predicting outcome in liver patients admitted to intensive care: A dual-centre non-specialist hospital external validation of the Liver injury and Failure evaluation score. Journal of the Intensive Care Society, 2021, 22, 152-158.	1.1	1
823	Hospital Admission Location Prediction via Deep Interpretable Networks for the Year-Round Improvement of Emergency Patient Care. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 289-300.	3.9	14
824	Physiology-Informed Real-Time Mean Arterial Blood Pressure Learning and Prediction for Septic Patients Receiving Norepinephrine. IEEE Transactions on Biomedical Engineering, 2021, 68, 181-191.	2.5	7
825	DeepSigns: A predictive model based on Deep Learning for the early detection of patient health deterioration. Expert Systems With Applications, 2021, 165, 113905.	4.4	29
826	Predicting acute kidney injury in critically ill patients using comorbid conditions utilizing machine learning. CKJ: Clinical Kidney Journal, 2021, 14, 1428-1435.	1.4	21
827	Bias at warp speed: how AI may contribute to the disparities gap in the time of COVID-19. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 190-192.	2.2	50
828	Towards accurate estimation of cuffless and continuous blood pressure using multi-order derivative and multivariate photoplethysmogram features. Biomedical Signal Processing and Control, 2021, 63, 102198.	3.5	33
829	Visual Causality Analysis of Event Sequence Data. IEEE Transactions on Visualization and Computer Graphics, 2021, 27, 1343-1352.	2.9	20
830	Federated Learning for Healthcare Informatics. Journal of Healthcare Informatics Research, 2021, 5, 1-19.	5.3	499
831	An impedance pneumography signal quality index: Design, assessment and application to respiratory rate monitoring. Biomedical Signal Processing and Control, 2021, 65, 102339.	3.5	34
832	Annotating social determinants of health using active learning, and characterizing determinants using neural event extraction. Journal of Biomedical Informatics, 2021, 113, 103631.	2.5	33
833	Pre-training phenotyping classifiers. Journal of Biomedical Informatics, 2021, 113, 103626.	2.5	1
834	Informative presence and observation in routine health data: A review of methodology for clinical risk prediction. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 155-166.	2.2	20
835	Using interpretability approaches to update "black-box" clinical prediction models: an external validation study in nephrology. Artificial Intelligence in Medicine, 2021, 111, 101982.	3.8	14

#	ARTICLE	IF	CITATIONS
836	LIG-Doctor: Efficient patient trajectory prediction using bidirectional minimal gated-recurrent networks. <i>Information Sciences</i> , 2021, 545, 813-827.	4.0	23
837	A Machine Learning decision-making tool for extubation in Intensive Care Unit patients. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 200, 105869.	2.6	26
838	Association between base excess and mortality in patients with congestive heart failure. <i>ESC Heart Failure</i> , 2021, 8, 250-258.	1.4	8
839	A prediction and interpretation framework of acute kidney injury in critical care. <i>Journal of Biomedical Informatics</i> , 2021, 113, 103653.	2.5	13
840	An empirical characterization of fair machine learning for clinical risk prediction. <i>Journal of Biomedical Informatics</i> , 2021, 113, 103621.	2.5	64
841	Ambiguity in medical concept normalization: An analysis of types and coverage in electronic health record datasets. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2021, 28, 516-532.	2.2	8
842	Modeling the Steady-State Effects of Mean Arterial Pressure on the Kidneys. <i>IEEE Open Journal of Engineering in Medicine and Biology</i> , 2021, 2, 1-10.	1.7	2
843	Domain specific word embeddings for natural language processing in radiology. <i>Journal of Biomedical Informatics</i> , 2021, 113, 103665.	2.5	14
844	Transatlantic transferability of a new reinforcement learning model for optimizing haemodynamic treatment for critically ill patients with sepsis. <i>Artificial Intelligence in Medicine</i> , 2021, 112, 102003.	3.8	17
845	Empirical analysis of Zipf's law, power law, and lognormal distributions in medical discharge reports. <i>International Journal of Medical Informatics</i> , 2021, 145, 104324.	1.6	1
846	Clinician involvement in research on machine learning-based predictive clinical decision support for the hospital setting: A scoping review. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2021, 28, 653-663.	2.2	44
848	PowerShell-based novel framework for Big health data analysis. <i>International Journal of Information Technology (Singapore)</i> , 2021, 13, 287-290.	1.8	3
849	SMR: Medical Knowledge Graph Embedding for Safe Medicine Recommendation. <i>Big Data Research</i> , 2021, 23, 100174.	2.6	90
850	A deep learning approach for sepsis monitoring via severity score estimation. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 198, 105816.	2.6	30
851	Improving Deep Reinforcement Learning With Transitional Variational Autoencoders: A Healthcare Application. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021, 25, 2273-2280.	3.9	21
852	Clinical prediction models to predict the risk of multiple binary outcomes: a comparison of approaches. <i>Statistics in Medicine</i> , 2021, 40, 498-517.	0.8	16
853	Learning from class-imbalance and heterogeneous data for 30-day hospital readmission. <i>Neurocomputing</i> , 2021, 420, 27-35.	3.5	18
854	Evaluating recommender systems for AI-driven biomedical informatics. <i>Bioinformatics</i> , 2021, 37, 250-256.	1.8	13

#	ARTICLE	IF	CITATIONS
855	Lessons and tips for designing a machine learning study using EHR data. Journal of Clinical and Translational Science, 2021, 5, e21.	0.3	18
856	Tackling Overfitting in Boosting for Noisy Healthcare Data. IEEE Transactions on Knowledge and Data Engineering, 2021, 33, 2995-3006.	4.0	22
857	CrowdTeacher: Robust Co-teaching with Noisy Answers and Sample-Specific Perturbations for Tabular Data. Lecture Notes in Computer Science, 2021, 12713, 181-193.	1.0	0
858	Artificial intelligence and machine learning in intensive care unit. Russian Journal of Anesthesiology and Reanimatology /Anesteziologiya I Reanimatologiya, 2021, , 97.	0.2	0
859	An Artificial Neural Networks Model for Early Predicting In-Hospital Mortality in Acute Pancreatitis in MIMIC-III. BioMed Research International, 2021, 2021, 1-8.	0.9	20
860	Automatic Classification of Diagnosis-Related Groups Using ANN and XGBoost Models. Communications in Computer and Information Science, 2021, , 88-102.	0.4	0
861	Patients With Idiopathic Pulmonary Fibrosis Admitted to the ICU With Acute Respiratory Failure—A Reevaluation of the Risk Factors and Outcomes. Journal of Intensive Care Medicine, 2022, 37, 342-351.	1.3	7
864	Machine learning in patient flow: a review. Progress in Biomedical Engineering, 2021, 3, 022002.	2.8	11
865	TransICD: Transformer Based Code-Wise Attention Model for Explainable ICD Coding. Lecture Notes in Computer Science, 2021, , 469-478.	1.0	10
866	Comparison Analysis of Prediction Model for Respiratory Diseases. Advances in Computational Intelligence and Robotics Book Series, 2021, , 86-98.	0.4	0
867	Physician documentation matters. Using natural language processing to predict mortality in sepsis. Intelligence-based Medicine, 2021, 5, 100028.	1.4	1
868	BioELECTRA:Pretrained Biomedical text Encoder using Discriminators. , 2021, , .		35
869	Analyzing Code Embeddings for Coding Clinical Narratives. , 2021, , .		0
870	CLIP: A Dataset for Extracting Action Items for Physicians from Hospital Discharge Notes. , 2021, , .		2
871	Parameter Selection: Why We Should Pay More Attention to It. , 2021, , .		0
872	MedNLI Is Not Immune: Natural Language Inference Artifacts in the Clinical Domain. , 2021, , .		1
873	Taming Pre-trained Language Models with N-gram Representations for Low-Resource Domain Adaptation. , 2021, , .		7
874	A Knowledge Distillation Ensemble Framework for Predicting Short- and Long-Term Hospitalization Outcomes From Electronic Health Records Data. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 423-435.	3.9	5

#	ARTICLE	IF	CITATIONS
876	Current status of China's critical care medicine big data platform and future prospects. Chinese Medical Journal, 2021, 134, 1684-1686.	0.9	0
878	Multiple Testing of Conditional Independence Hypotheses Using Information-Theoretic Approach. Lecture Notes in Computer Science, 2021, , 81-92.	1.0	2
879	A Mortality Risk Assessment Approach on ICU Patients Clinical Medication Events Using Deep Learning. CMES - Computer Modeling in Engineering and Sciences, 2021, 128, 161-181.	0.8	2
880	Detection of Conditional Dependence Between Multiple Variables Using Multiinformation. Lecture Notes in Computer Science, 2021, , 677-690.	1.0	0
881	Assertion Detection in Clinical Notes: Medical Language Models to the Rescue?. , 2021, , .		9
882	Medical Code Assignment with Gated Convolution and Note-Code Interaction. , 2021, , .		7
883	Neural Clinical Event Sequence Prediction Through Personalized Online Adaptive Learning. Lecture Notes in Computer Science, 2021, 12721, 175-186.	1.0	2
884	Transformers for Multi-label Classification of Medical Text: An Empirical Comparison. Lecture Notes in Computer Science, 2021, , 114-123.	1.0	6
885	Counterfactual Explanations for Survival Prediction of Cardiovascular ICU Patients. Lecture Notes in Computer Science, 2021, , 338-348.	1.0	5
888	BoneBert: A BERT-based Automated Information Extraction System of Radiology Reports for Bone Fracture Detection and Diagnosis. Lecture Notes in Computer Science, 2021, , 263-274.	1.0	4
889	GPSRL: Learning Semi-Parametric Bayesian Survival Rule Lists from Heterogeneous Patient Data. , 2021, , .		2
890	Feature extraction from unequal length heterogeneous EHR time series via dynamic time warping and tensor decomposition. Data Mining and Knowledge Discovery, 2021, 35, 1760-1784.	2.4	8
891	Relationship between early serum sodium and potassium levels and AKI severity and prognosis in oliguric AKI patients. International Urology and Nephrology, 2021, 53, 1171-1187.	0.6	7
892	Readmission Prediction with Knowledge Graph Attention and RNN-Based Ordinary Differential Equations. Lecture Notes in Computer Science, 2021, , 559-570.	1.0	2
893	Incremental Inference of Provenance Types. Lecture Notes in Computer Science, 2021, , 145-162.	1.0	0
894	An Evaluation on Entity Extraction and Semantic Similarity Metrics to Facilitate Medical Text Analysis Based on WordNet. Lecture Notes in Computer Science, 2021, , 138-151.	1.0	0
895	Towards early sepsis detection from measurements at the general ward through deep learning. Intelligence-based Medicine, 2021, 5, 100042.	1.4	5
896	Leveraging big data analytics in healthcare enhancement: trends, challenges and opportunities. Multimedia Systems, 2022, 28, 1339-1371.	3.0	53

#	ARTICLE	IF	CITATIONS
897	Self-Supervised Graph Learning With Hyperbolic Embedding for Temporal Health Event Prediction. IEEE Transactions on Cybernetics, 2023, 53, 2124-2136.	6.2	9
898	An approach for open multivariate analysis of integrated clinical and environmental exposures data. Informatics in Medicine Unlocked, 2021, 26, 100733.	1.9	4
899	Incremental Parameter Estimation of Stochastic State-Based Models. , 2021, , .		2
900	Extractive Summarization of EHR Notes. Algorithms for Intelligent Systems, 2021, , 909-919.	0.5	1
901	Utilizing BERT for biomedical and clinical text mining. , 2021, , 73-103.		7
903	Novel Imputation Method Using Average Code from Autoencoders in Clinical Data. , 2021, , .		0
904	Exploration and Visualization of the Hidden Information from the Congestive Heart Failure Patients Data in MIMIC-III Database. Algorithms for Intelligent Systems, 2021, , 349-362.	0.5	1
905	Automated interpretation of electrocardiographic tracings. , 2021, , 311-324.		0
906	Evaluation and improvement of the National Early Warning Score (NEWS2) for COVID-19: a multi-hospital study. BMC Medicine, 2021, 19, 23.	2.3	80
907	Association between comorbid diabetes mellitus and prognosis of patients with sepsis in the intensive care unit: a retrospective cohort study. Annals of Translational Medicine, 2021, 9, 22-22.	0.7	7
908	Span Classification Based Model for Clinical Concept Extraction. Advances in Intelligent Systems and Computing, 2021, , 1880-1889.	0.5	0
909	An empirical meta-analysis of the life sciences linked open data on the web. Scientific Data, 2021, 8, 24.	2.4	10
910	Multitask Recalibrated Aggregation Network for Medical Code Prediction. Lecture Notes in Computer Science, 2021, , 367-383.	1.0	6
911	Improving Factual Completeness and Consistency of Image-to-Text Radiology Report Generation. , 2021, , .		27
912	Diagnosis Ranking with Knowledge Graph Convolutional Networks. Lecture Notes in Computer Science, 2021, , 359-374.	1.0	1
913	The value of lactate/albumin ratio for predicting the clinical outcomes of critically ill patients with heart failure. Annals of Translational Medicine, 2021, 9, 118-118.	0.7	24
914	Artificial Intelligence and Deep Learning in Ophthalmology. , 2021, , 1-34.		10
915	Artificial intelligence-based prediction of transfusion in the intensive care unit in patients with gastrointestinal bleeding. BMJ Health and Care Informatics, 2021, 28, e100245.	1.4	18

#	ARTICLE	IF	CITATIONS
916	IITK at SemEval-2021 Task 10: Source-Free Unsupervised Domain Adaptation using Class Prototypes. , 2021, , .		0
917	Customized Neural Predictive Medical Text: A Use-Case on Caregivers. Lecture Notes in Computer Science, 2021, , 438-443.	1.0	0
918	Medication Combination Prediction Using Temporal Attention Mechanism and Simple Graph Convolution. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 3995-4004.	3.9	9
919	Deep Learning with Heterogeneous Graph Embeddings for Mortality Prediction from Electronic Health Records. Data Intelligence, 2021, 3, 329-339.	0.8	8
920	Deep Learning applications for COVID-19. Journal of Big Data, 2021, 8, 18.	6.9	195
921	Joint Summarization-Entailment Optimization for Consumer Health Question Understanding. , 2021, , .		10
922	Uncertainty-Aware Variational-Recurrent Imputation Network for Clinical Time Series. IEEE Transactions on Cybernetics, 2022, 52, 9684-9694.	6.2	17
923	Predicting the Prognosis of Patients in the Coronary Care Unit via Machine Learning Using XGBoost. SSRN Electronic Journal, 0, , .	0.4	0
924	Enhancing Investigative Pattern Detection via Inexact Matching and Graph Databases. IEEE Transactions on Services Computing, 2022, 15, 2780-2794.	3.2	2
925	Mortality Prediction in ICU Patients Using Machine Learning Models. , 2021, , .		2
928	Prognostic nomogram for 30-day mortality of deep vein thrombosis patients in intensive care unit. BMC Cardiovascular Disorders, 2021, 21, 11.	0.7	6
929	Linguistic Uncertainty in Clinical NLP: A Taxonomy, Dataset and Approach. Lecture Notes in Computer Science, 2021, , 129-141.	1.0	1
930	Development and validation of high definition phenotype-based mortality prediction in critical care units. JAMIA Open, 2021, 4, ooab004.	1.0	9
931	Variational Knowledge Distillation for Disease Classification in Chest X-Rays. Lecture Notes in Computer Science, 2021, , 334-345.	1.0	5
932	Phenotypes for Resistant Bacteria Infections Using an Efficient Subgroup Discovery Algorithm. Lecture Notes in Computer Science, 2021, , 246-251.	1.0	1
933	Seasonality in Infection Predictions Using Interpretable Models for High Dimensional Imbalanced Datasets. Lecture Notes in Computer Science, 2021, , 152-156.	1.0	1
934	The Association of Coagulation Indicators and Coagulant Agents With 30-Day Mortality of Critical Diabetics. Clinical and Applied Thrombosis/Hemostasis, 2021, 27, 107602962110263.	0.7	1
935	Decision Support for Tactical Combat Casualty Care Using Machine Learning to Detect Shock. Military Medicine, 2021, 186, 273-280.	0.4	12

#	ARTICLE	IF	CITATIONS
936	Artificial Intelligence in Predicting Kidney Function and Acute Kidney Injury. , 2021, , 1-17.		0
937	Artificial Intelligence for Medical Diagnosis. , 2021, , 1-21.		0
938	TrammelGraph: visual graph abstraction for comparison. Journal of Visualization, 2021, 24, 365-379.	1.1	7
939	Development and Validation of a Sepsis Mortality Risk Score for Sepsis-3 Patients in Intensive Care Unit. Frontiers in Medicine, 2020, 7, 609769.	1.2	14
940	Deep Kernel Learning for Mortality Prediction in the Face of Temporal Shift. Lecture Notes in Computer Science, 2021, , 199-208.	1.0	0
941	Demographic Aware Probabilistic Medical Knowledge Graph Embeddings of Electronic Medical Records. Lecture Notes in Computer Science, 2021, , 408-417.	1.0	0
942	Characteristics and clinical subtypes of cancer patients in the intensive care unit: a retrospective observational study for two large databases. Annals of Translational Medicine, 2021, 9, 13-13.	0.7	3
943	Prevalence of Clostridioides difficile Infection in Critically Ill Patients with Extreme Leukocytosis and Diarrhea. Infectious Disease Reports, 2021, 13, 18-22.	1.5	3
944	Comparison of Approaches for Prediction of Renal Replacement Therapy-Free Survival in Patients with Acute Kidney Injury. Blood Purification, 2021, 50, 621-627.	0.9	14
945	The impact of statin use prior to intensive care unit admission on critically ill patients with sepsis. Pharmacotherapy, 2021, 41, 162-171.	1.2	11
946	Blood Urea Nitrogen and In-Hospital Mortality in Critically Ill Patients with Cardiogenic Shock: Analysis of the MIMIC-III Database. BioMed Research International, 2021, 2021, 1-7.	0.9	9
947	A natural language processing and deep learning approach to identify child abuse from pediatric electronic medical records. PLoS ONE, 2021, 16, e0247404.	1.1	28
948	The Relationship Between the Serum Anion Gap and All-Cause Mortality in Acute Pancreatitis: An Analysis of the MIMIC-III Database. International Journal of General Medicine, 2021, Volume 14, 531-538.	0.8	20
949	Red cell distribution width is associated with all-cause mortality in patients with acute stroke: a retrospective analysis of a large clinical database. Journal of International Medical Research, 2021, 49, 030006052098058.	0.4	8
951	Heart rate fluctuation predicts mortality in critically ill patients in the intensive care unit: a retrospective cohort study. Annals of Translational Medicine, 2021, 9, 334-334.	0.7	6
952	Deep learning and the electrocardiogram: review of the current state-of-the-art. Europace, 2021, 23, 1179-1191.	0.7	111
953	Machine learning prediction models for prognosis of critically ill patients after open-heart surgery. Scientific Reports, 2021, 11, 3384.	1.6	38
954	Predicting hypotension in the ICU using noninvasive physiological signals. Computers in Biology and Medicine, 2021, 129, 104120.	3.9	7

#	ARTICLE	IF	CITATIONS
955	A patient-centered digital scribe for automatic medical documentation. <i>JAMIA Open</i> , 2021, 4, ooab003.	1.0	13
956	The prediction of mortality influential variables in an intensive care unit: a case study. <i>Personal and Ubiquitous Computing</i> , 2023, 27, 203-219.	1.9	4
957	Electronic healthcare records and external outcome data for hospitalized patients with heart failure. <i>Scientific Data</i> , 2021, 8, 46.	2.4	41
958	Well-being Forecasting using a Parametric Transfer-Learning method based on the Fisher Divergence and Hamiltonian Monte Carlo. <i>EAI Endorsed Transactions on Bioengineering and Bioinformatics</i> , 2021, 1, 166661.	0.9	1
959	Serum lactate dehydrogenase level is associated with in-hospital mortality in critically ill patients with acute kidney injury. <i>International Urology and Nephrology</i> , 2021, 53, 2341-2348.	0.6	16
960	Sex Differences in Short- and Long-Term Survival Among Critically Ill Patients with Sepsis. <i>International Journal of General Medicine</i> , 2021, Volume 14, 613-622.	0.8	3
961	Sharing ICU Patient Data Responsibly Under the Society of Critical Care Medicine/European Society of Intensive Care Medicine Joint Data Science Collaboration: The Amsterdam University Medical Centers Database (AmsterdamUMCdb) Example*. <i>Critical Care Medicine</i> , 2021, 49, e563-e577.	0.4	87
962	Development and validation of a reinforcement learning algorithm to dynamically optimize mechanical ventilation in critical care. <i>Npj Digital Medicine</i> , 2021, 4, 32.	5.7	47
964	Can Big Data and Machine Learning Improve Our Understanding of Acute Respiratory Distress Syndrome?. <i>Cureus</i> , 2021, 13, e13529.	0.2	4
966	Obesity and Overweight Are Independently Associated with Greater Survival in Critically Ill Diabetic Patients: A Retrospective Cohort Study. <i>Journal of Diabetes Research</i> , 2021, 2021, 1-10.	1.0	0
967	Lexicon Development for COVID-19-related Concepts Using Open-source Word Embedding Sources: An Intrinsic and Extrinsic Evaluation. <i>JMIR Medical Informatics</i> , 2021, 9, e21679.	1.3	3
968	CMIID: A comprehensive medical information identifier for clinical search harmonization in Data Safe Havens. <i>Journal of Biomedical Informatics</i> , 2021, 114, 103669.	2.5	0
969	Deep Reinforcement Learning Techniques in Diversified Domains: A Survey. <i>Archives of Computational Methods in Engineering</i> , 2021, 28, 4715-4754.	6.0	22
970	BertMCN: Mapping colloquial phrases to standard medical concepts using BERT and highway network. <i>Artificial Intelligence in Medicine</i> , 2021, 112, 102008.	3.8	17
971	Preoperative Lymphocyte-to-Monocyte Ratio as a Prognostic Predictor of Long-Term Mortality in Cardiac Surgery Patients: A Propensity Score Matching Analysis. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 639890.	1.1	10
973	Diagnostic accuracy of a dynamically increased red blood cell distribution width in very low birth weight infants with serious bacterial infection. <i>Italian Journal of Pediatrics</i> , 2021, 47, 44.	1.0	8
974	Multi-layer Representation Learning and Its Application to Electronic Health Records. <i>Neural Processing Letters</i> , 2021, 53, 1417-1433.	2.0	9
975	Lactate and Bilirubin Index: A New Indicator to Predict Critically Ill Cirrhotic Patients's™ Prognosis. <i>Canadian Journal of Gastroenterology and Hepatology</i> , 2021, 2021, 1-7.	0.8	1

#	ARTICLE	IF	CITATIONS
976	Overweight is associated with better one-year survival in elderly patients after cardiac surgery: a retrospective analysis of the MIMIC-III database. <i>Journal of Thoracic Disease</i> , 2021, 13, 562-574.	0.6	5
977	The prediction value of Glasgow coma scale-pupils score in neurocritical patients: a retrospective study. <i>Brain Injury</i> , 2021, 35, 547-553.	0.6	4
978	Modeling multivariate clinical event time-series with recurrent temporal mechanisms. <i>Artificial Intelligence in Medicine</i> , 2021, 112, 102021.	3.8	17
979	Early Detection of Sepsis With Machine Learning Techniques: A Brief Clinical Perspective. <i>Frontiers in Medicine</i> , 2021, 8, 617486.	1.2	32
980	Association Between Blood Eosinophils and Mortality in Critically Ill Patients with Acute Exacerbation of Chronic Obstructive Pulmonary Disease: A Retrospective Cohort Study. <i>International Journal of COPD</i> , 2021, Volume 16, 281-288.	0.9	9
981	Similarity-Based Unsupervised Spelling Correction Using BioWordVec: Development and Usability Study of Bacterial Culture and Antimicrobial Susceptibility Reports. <i>JMIR Medical Informatics</i> , 2021, 9, e25530.	1.3	2
982	Development and validation of a risk stratification model for predicting the mortality of acute kidney injury in critical care patients. <i>Annals of Translational Medicine</i> , 2021, 9, 323-323.	0.7	12
983	Multimodal temporal-clinical note network for mortality prediction. <i>Journal of Biomedical Semantics</i> , 2021, 12, 3.	0.9	11
984	A Comprehensive Way to Access Hospital Death Prediction Model for Acute Mesenteric Ischemia: A Combination of Traditional Statistics and Machine Learning. <i>International Journal of General Medicine</i> , 2021, Volume 14, 591-602.	0.8	6
985	Development and Validation of an Automated Algorithm to Detect Atrial Fibrillation Within Stored Intensive Care Unit Continuous Electrocardiographic Data: Observational Study. <i>JMIR Cardio</i> , 2021, 5, e18840.	0.7	3
986	Data analytics and clinical feature ranking of medical records of patients with sepsis. <i>BioData Mining</i> , 2021, 14, 12.	2.2	13
987	Severity of Illness and Predictive Models in Society of Critical Care Medicine's First 50 Years: A Tale of Concord and Conflict. <i>Critical Care Medicine</i> , 2021, 49, 728-740.	0.4	12
988	Impact of Serum Chloride and Sodium in Patients With Decompensated Cirrhosis. <i>Critical Care Medicine</i> , 2021, 49, e338-e339.	0.4	3
989	Machine Learning-Based Early Warning Systems for Clinical Deterioration: Systematic Scoping Review. <i>Journal of Medical Internet Research</i> , 2021, 23, e25187.	2.1	49
991	Protocol for a reproducible experimental survey on biomedical sentence similarity. <i>PLoS ONE</i> , 2021, 16, e0248663.	1.1	2
992	An Estimation Method of Continuous Non-Invasive Arterial Blood Pressure Waveform Using Photoplethysmography: A U-Net Architecture-Based Approach. <i>Sensors</i> , 2021, 21, 1867.	2.1	66
993	Comparative Effectiveness of Midazolam, Propofol, and Dexmedetomidine in Patients With or at Risk for Acute Respiratory Distress Syndrome: A Propensity Score-Matched Cohort Study. <i>Frontiers in Pharmacology</i> , 2021, 12, 614465.	1.6	2
994	Hybrid Deep Learning for Medication-Related Information Extraction From Clinical Texts in French: MedExt Algorithm Development Study. <i>JMIR Medical Informatics</i> , 2021, 9, e17934.	1.3	17

#	ARTICLE	IF	CITATIONS
996	A fast, accurate, and generalisable heuristic-based negation detection algorithm for clinical text. <i>Computers in Biology and Medicine</i> , 2021, 130, 104216.	3.9	12
998	Applicability of Clinical Decision Support in Management among Patients Undergoing Cardiac Surgery in Intensive Care Unit: A Systematic Review. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2880.	1.3	4
1000	Chasing Your Long Tails. , 2021, , .		21
1001	Future Medical Artificial Intelligence Application Requirements and Expectations of Physicians in German University Hospitals: Web-Based Survey. <i>Journal of Medical Internet Research</i> , 2021, 23, e26646.	2.1	46
1002	Automated Coding of Under-Studied Medical Concept Domains: Linking Physical Activity Reports to the International Classification of Functioning, Disability, and Health. <i>Frontiers in Digital Health</i> , 2021, 3, .	1.5	16
1003	DeepAISE – An interpretable and recurrent neural survival model for early prediction of sepsis. <i>Artificial Intelligence in Medicine</i> , 2021, 113, 102036.	3.8	33
1004	Data-driven curation process for describing the blood glucose management in the intensive care unit. <i>Scientific Data</i> , 2021, 8, 80.	2.4	5
1005	Nomogram to predict the risk of acute kidney injury in patients with diabetic ketoacidosis: an analysis of the MIMIC-III database. <i>BMC Endocrine Disorders</i> , 2021, 21, 37.	0.9	14
1007	A novel model to label delirium in an intensive care unit from clinician actions. <i>BMC Medical Informatics and Decision Making</i> , 2021, 21, 97.	1.5	7
1008	Deep representation learning of patient data from Electronic Health Records (EHR): A systematic review. <i>Journal of Biomedical Informatics</i> , 2021, 115, 103671.	2.5	86
1009	A Prediction Model for Assessing Prognosis in Critically Ill Patients with Sepsis-associated Acute Kidney Injury. <i>Shock</i> , 2021, 56, 564-572.	1.0	16
1010	Variable selection for causal mediation analysis using LASSO-based methods. <i>Statistical Methods in Medical Research</i> , 2021, 30, 1413-1427.	0.7	9
1012	Application of Machine Learning in Intensive Care Unit (ICU) Settings Using MIMIC Dataset: Systematic Review. <i>Informatics</i> , 2021, 8, 16.	2.4	24
1013	Association Between Preadmission Metformin Use and Outcomes in Intensive Care Unit Patients With Sepsis and Type 2 Diabetes: A Cohort Study. <i>Frontiers in Medicine</i> , 2021, 8, 640785.	1.2	63
1014	Identification of Drug Discovery for Patients Using Machine Learning. , 2021, , .		1
1015	Associations Between Elevated Systolic Blood Pressure and Outcomes in Critically Ill Patients: A Retrospective Cohort Study and Propensity Analysis. <i>Shock</i> , 2021, 56, 557-563.	1.0	7
1016	Minimum heart rate and mortality in critically ill myocardial infarction patients: an analysis of the MIMIC-III database. <i>Annals of Translational Medicine</i> , 2021, 9, 496-496.	0.7	5
1017	Realizing the Power of Text Mining and Natural Language Processing for Analyzing Patient Safety Event Narratives: The Challenges and Path Forward. <i>Journal of Patient Safety</i> , 2021, 17, e834-e836.	0.7	5

#	ARTICLE	IF	CITATIONS
1018	Reproducibility in machine learning for health research: Still a ways to go. <i>Science Translational Medicine</i> , 2021, 13, .	5.8	119
1020	Use of learning approaches to predict clinical deterioration in patients based on various variables: a review of the literature. <i>Artificial Intelligence Review</i> , 2022, 55, 1055-1084.	9.7	5
1021	Development and validation of a nomogram to predict the mortality risk in elderly patients with ARF. <i>PeerJ</i> , 2021, 9, e11016.	0.9	5
1022	A nomogram to predict in-hospital mortality of neonates admitted to the intensive care unit. <i>International Health</i> , 2021, 13, 633-639.	0.8	2
1023	Identifying subpopulations of septic patients: A temporal data-driven approach. <i>Computers in Biology and Medicine</i> , 2021, 130, 104182.	3.9	5
1025	Data Mining in Healthcare: Applying Strategic Intelligence Techniques to Depict 25 Years of Research Development. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 3099.	1.2	26
1026	Blood Pressure Morphology Assessment from Photoplethysmogram and Demographic Information Using Deep Learning with Attention Mechanism. <i>Sensors</i> , 2021, 21, 2167.	2.1	44
1027	The critical care data exchange format: a proposed flexible data standard for combining clinical and high-frequency physiologic data in critical care. <i>Physiological Measurement</i> , 2021, 42, .	1.2	10
1028	Determining respiratory rate from photoplethysmogram and electrocardiogram signals using respiratory quality indices and neural networks. <i>PLoS ONE</i> , 2021, 16, e0249843.	1.1	14
1029	Improved characterisation of clinical text through ontology-based vocabulary expansion. <i>Journal of Biomedical Semantics</i> , 2021, 12, 7.	0.9	8
1030	Concept-based model explanations for electronic health records. , 2021, , .		9
1031	Generalized and transferable patient language representation for phenotyping with limited data. <i>Journal of Biomedical Informatics</i> , 2021, 116, 103726.	2.5	5
1032	Impact of chronic respiratory diseases on re-intubation rate in critically ill patients: a cohort study. <i>Scientific Reports</i> , 2021, 11, 8663.	1.6	1
1033	Development and Validation of a Clinical Prediction Model for Sleep Disorders in the ICU: A Retrospective Cohort Study. <i>Frontiers in Neuroscience</i> , 2021, 15, 644845.	1.4	5
1034	An empirical framework for domain generalization in clinical settings. , 2021, , .		18
1035	Day-to-day progression of vital-sign circadian rhythms in the intensive care unit. <i>Critical Care</i> , 2021, 25, 156.	2.5	12
1036	GHS-NET a generic hybridized shallow neural network for multi-label biomedical text classification. <i>Journal of Biomedical Informatics</i> , 2021, 116, 103699.	2.5	33
1037	Artificial intelligence for a personalized diagnosis and treatment of atrial fibrillation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2021, 320, H1337-H1347.	1.5	15

#	ARTICLE	IF	CITATIONS
1038	A visual analytic approach for the identification of ICU patient subpopulations using ICD diagnostic codes. <i>PeerJ Computer Science</i> , 2021, 7, e430.	2.7	4
1039	Predicting open wound mortality in the ICU using machine learning. <i>Journal of Emergency and Critical Care Medicine</i> , 2021, 5, 13-13.	0.7	2
1041	Association between red blood cell distribution width and in-hospital mortality in acute myocardial infarction. <i>Medicine (United States)</i> , 2021, 100, e25404.	0.4	12
1042	Neural network predicts need for red blood cell transfusion for patients with acute gastrointestinal bleeding admitted to the intensive care unit. <i>Scientific Reports</i> , 2021, 11, 8827.	1.6	11
1043	Urine Output Calculated Using Actual Body Weight May Result in Overestimation of Acute Kidney Injury for Obese Patients. <i>Shock</i> , 2021, 56, 737-743.	1.0	3
1044	Admission Serum Ionized and Total Calcium as New Predictors of Mortality in Patients with Cardiogenic Shock. <i>BioMed Research International</i> , 2021, 2021, 1-15.	0.9	7
1045	A comprehensive EHR timeseries pre-training benchmark. , 2021, , .		8
1046	A deep-learning model to continuously predict severe acute kidney injury based on urine output changes in critically ill patients. <i>Journal of Nephrology</i> , 2021, 34, 1875-1886.	0.9	23
1047	Mining heterogeneous clinical notes by multi-modal latent topic model. <i>PLoS ONE</i> , 2021, 16, e0249622.	1.1	8
1048	PRICURE: Privacy-Preserving Collaborative Inference in a Multi-Party Setting. , 2021, , .		8
1049	Communication Efficient Federated Generalized Tensor Factorization for Collaborative Health Data Analytics. , 2021, 2021, 171-182.		14
1050	A Bitemporal SQL Database Design Method from the Enhanced Entity-Relationship Model. , 2021, , .		1
1051	Development of a Nomogram to Predict 28-Day Mortality of Patients With Sepsis-Induced Coagulopathy: An Analysis of the MIMIC-III Database. <i>Frontiers in Medicine</i> , 2021, 8, 661710.	1.2	17
1052	A direct comparison of theory-driven and machine learning prediction of suicide: A meta-analysis. <i>PLoS ONE</i> , 2021, 16, e0249833.	1.1	30
1053	TOP-Net Prediction Model Using Bidirectional Long Short-term Memory and Medical-Grade Wearable Multisensor System for Tachycardia Onset: Algorithm Development Study. <i>JMIR Medical Informatics</i> , 2021, 9, e18803.	1.3	14
1054	Explainable automated coding of clinical notes using hierarchical label-wise attention networks and label embedding initialisation. <i>Journal of Biomedical Informatics</i> , 2021, 116, 103728.	2.5	31
1055	Type 2 Diabetes with Artificial Intelligence Machine Learning: Methods and Evaluation. <i>Archives of Computational Methods in Engineering</i> , 2022, 29, 313-333.	6.0	29
1056	Fibrinogen Level Predicts Outcomes in Critically Ill Patients with Acute Exacerbation of Chronic Heart Failure. <i>Disease Markers</i> , 2021, 2021, 1-7.	0.6	8

#	ARTICLE	IF	CITATIONS
1057	Incorporating real-world evidence into the development of patient blood glucose prediction algorithms for the ICU. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 1642-1650.	2.2	14
1058	A Hybrid Model for Family History Information Identification and Relation Extraction: Development and Evaluation of an End-to-End Information Extraction System. JMIR Medical Informatics, 2021, 9, e22797.	1.3	5
1059	Predictive models for colorectal cancer recurrence using multi-modal healthcare data. , 2021, , .		3
1060	Machine learning applied to a Cardiac Surgery Recovery Unit and to a Coronary Care Unit for mortality prediction. Journal of Clinical Monitoring and Computing, 2022, 36, 751-763.	0.7	8
1061	Annotation and initial evaluation of a large annotated German oncological corpus. JAMIA Open, 2021, 4, ooab025.	1.0	14
1062	Multi-Layer Picture of Neurodegenerative Diseases: Lessons from the Use of Big Data through Artificial Intelligence. Journal of Personalized Medicine, 2021, 11, 280.	1.1	22
1063	Association of prescription opioid use on mortality and hospital length of stay in the intensive care unit. PLoS ONE, 2021, 16, e0250320.	1.1	10
1065	LifeStream: a high-performance stream processing engine for periodic streams. , 2021, , .		3
1066	Using nursing notes to improve clinical outcome prediction in intensive care patients: A retrospective cohort study. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 1660-1666.	2.2	9
1067	Unsupervised phenotyping of sepsis using nonnegative matrix factorization of temporal trends from a multivariate panel of physiological measurements. BMC Medical Informatics and Decision Making, 2021, 21, 95.	1.5	8
1068	Association between metformin use on admission and outcomes in intensive care unit patients with acute kidney injury and type 2 diabetes: A retrospective cohort study. Journal of Critical Care, 2021, 62, 206-211.	1.0	13
1069	Comparative Efficacy of Fentanyl and Morphine in Patients with or At Risk for Acute Respiratory Distress Syndrome: A Propensity Score-Matched Cohort Study. Drugs in R and D, 2021, 21, 149-155.	1.1	4
1070	Online Disease Diagnosis with Inductive Heterogeneous Graph Convolutional Networks. , 2021, , .		9
1071	Performance of intensive care unit severity scoring systems across different ethnicities in the USA: a retrospective observational study. The Lancet Digital Health, 2021, 3, e241-e249.	5.9	44
1072	Extracting clinical terms from radiology reports with deep learning. Journal of Biomedical Informatics, 2021, 116, 103729.	2.5	19
1073	Survival in the Intensive Care Unit: A prognosis model based on Bayesian classifiers. Artificial Intelligence in Medicine, 2021, 115, 102054.	3.8	6
1074	MGP-AttTCN: An interpretable machine learning model for the prediction of sepsis. PLoS ONE, 2021, 16, e0251248.	1.1	16
1075	Desiderata for a Synthetic Clinical Data Generator. Studies in Health Technology and Informatics, 2021, 281, 68-72.	0.2	0

#	ARTICLE	IF	CITATIONS
1076	CREATE: A New Data Resource to Support Cardiac Precision Health. <i>CJC Open</i> , 2021, 3, 639-645.	0.7	6
1077	Effect of spontaneous breathing on ventilator-free days in critically ill patientsâ€”an analysis of patients in a large observational cohort. <i>Annals of Translational Medicine</i> , 2021, 9, 783-783.	0.7	1
1078	Safety-driven design of machine learning for sepsis treatment. <i>Journal of Biomedical Informatics</i> , 2021, 117, 103762.	2.5	8
1080	Predicting in-hospital mortality in ICU patients with sepsis using gradient boosting decision tree. <i>Medicine (United States)</i> , 2021, 100, e25813.	0.4	21
1081	Comparing COVID-19 and Influenza Presentation and Trajectory. <i>Frontiers in Medicine</i> , 2021, 8, 656405.	1.2	6
1082	Adversarial balancing-based representation learning for causal effect inference with observational data. <i>Data Mining and Knowledge Discovery</i> , 2021, 35, 1713-1738.	2.4	8
1083	Collecting specialty-related medical terms: Development and evaluation of a resource for Spanish. <i>BMC Medical Informatics and Decision Making</i> , 2021, 21, 145.	1.5	0
1084	Convolutional Neural Network Model for Intensive Care Unit Acute Kidney Injury Prediction. <i>Kidney International Reports</i> , 2021, 6, 1289-1298.	0.4	29
1085	Predicting Intensive Care Unit Length of Stay and Mortality Using Patient Vital Signs: Machine Learning Model Development and Validation. <i>JMIR Medical Informatics</i> , 2021, 9, e21347.	1.3	31
1086	Multi-channel, convolutional attention based neural model for automated diagnostic coding of unstructured patient discharge summaries. <i>Future Generation Computer Systems</i> , 2021, 118, 374-391.	4.9	18
1087	A Clinical Prediction Model to Predict Heparin Treatment Outcomes and Provide Dosage Recommendations: Development and Validation Study. <i>Journal of Medical Internet Research</i> , 2021, 23, e27118.	2.1	6
1088	Effects of Stress Hyperglycemia on Short-Term Prognosis of Patients Without Diabetes Mellitus in Coronary Care Unit. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 683932.	1.1	10
1089	Machine learning driven tools in orthopaedics and spine surgery: Hype or reality? Applications and perception of 31 physician opinions. <i>Seminars in Spine Surgery</i> , 2021, 33, 100871.	0.1	4
1090	A similarity matrix based approach for building patient centric social networks. <i>International Journal of Information Technology (Singapore)</i> , 2021, 13, 1449-1455.	1.8	2
1091	Prognosis and management of new-onset atrial fibrillation in critically ill patients. <i>BMC Cardiovascular Disorders</i> , 2021, 21, 231.	0.7	13
1092	Hyperphosphatemia rather than hypophosphatemia indicates a poor prognosis in patients with sepsis. <i>Clinical Biochemistry</i> , 2021, 91, 9-15.	0.8	14
1093	The association between four scoring systems and 30-day mortality among intensive care patients with sepsis: a cohort study. <i>Scientific Reports</i> , 2021, 11, 11214.	1.6	14
1094	Association between the platelet-lymphocyte ratio and short-term mortality in patients with ST-segment elevation myocardial infarction. <i>Clinical Cardiology</i> , 2021, 44, 994-1001.	0.7	9

#	ARTICLE	IF	CITATIONS
1095	SURVFIT: Doubly sparse rule learning for survival data. Journal of Biomedical Informatics, 2021, 117, 103691.	2.5	6
1096	Differential effects of the blood pressure state on pulse rate variability and heart rate variability in critically ill patients. Npj Digital Medicine, 2021, 4, 82.	5.7	22
1097	Lower serum chloride concentrations are associated with increased risk of mortality in critically ill cirrhotic patients: an analysis of the MIMIC-III database. BMC Gastroenterology, 2021, 21, 200.	0.8	10
1098	Med-BERT: pretrained contextualized embeddings on large-scale structured electronic health records for disease prediction. Npj Digital Medicine, 2021, 4, 86.	5.7	248
1099	Outcomes prediction in longitudinal data: Study designs evaluation, use case in ICU acquired sepsis. Journal of Biomedical Informatics, 2021, 117, 103734.	2.5	11
1100	Extracting Drug Names and Associated Attributes From Discharge Summaries: Text Mining Study. JMIR Medical Informatics, 2021, 9, e24678.	1.3	7
1101	Establishment of a prognostic model based on the Sequential Organ Failure Assessment score for patients with first-time acute myocardial infarction. Journal of International Medical Research, 2021, 49, 030006052110119.	0.4	2
1102	Optimal sepsis patient treatment using human-in-the-loop artificial intelligence. Expert Systems With Applications, 2021, 169, 114476.	4.4	5
1103	Assessing the Impact of Automated Suggestions on Decision Making: Domain Experts Mediate Model Errors but Take Less Initiative. , 2021, , .		26
1105	Penalized semiparametric Cox regression model on XGBoost and random survival forests. Communications in Statistics Part B: Simulation and Computation, 2023, 52, 3095-3103.	0.6	3
1106	Early Prediction of Sepsis in the ICU Using Machine Learning: A Systematic Review. Frontiers in Medicine, 2021, 8, 607952.	1.2	62
1107	OASISâ€™+: leveraging machine learning to improve the prognostic accuracy of OASIS severity score for predicting in-hospital mortality. BMC Medical Informatics and Decision Making, 2021, 21, 156.	1.5	3
1108	A novel risk-predicted nomogram for sepsis associated-acute kidney injury among critically ill patients. BMC Nephrology, 2021, 22, 173.	0.8	17
1109	The effect of COVID-19 epidemic on vital signs in hospitalized patients: a pre-post heat-map study from a large teaching hospital. Journal of Clinical Monitoring and Computing, 2022, 36, 829-837.	0.7	5
1110	Serum phosphate is associated with mortality among patients admitted to ICU for acute pancreatitis. United European Gastroenterology Journal, 2021, 9, 534-542.	1.6	10
1111	AI-oriented Workload Allocation for Cloud-Edge Computing. , 2021, , .		3
1112	Using of machine learning methods in cardiology. Journal of Physics: Conference Series, 2021, 1902, 012135.	0.3	2
1113	Mortality prediction for patients with acute respiratory distress syndrome based on machine learning: a population-based study. Annals of Translational Medicine, 2021, 9, 794-794.	0.7	18

#	ARTICLE	IF	CITATIONS
1114	Deep learning-based photoplethysmography classification for peripheral arterial disease detection: a proof-of-concept study. <i>Physiological Measurement</i> , 2021, 42, 054002.	1.2	33
1115	Interpretable and Continuous Prediction of Acute Kidney Injury in the Intensive Care. <i>Studies in Health Technology and Informatics</i> , 2021, 281, 103-107.	0.2	4
1116	<i>dxpr</i>: an R package for generating analysis-ready data from electronic health recordsâ€™ diagnoses and procedures. <i>PeerJ Computer Science</i> , 2021, 7, e520.	2.7	2
1117	Wearable Physiological Parameters Monitoring Device Based on Blood Pressure Model and Time Domain Analysis of PPG Signal. , 2021, , .		2
1118	Weakly supervised temporal model for prediction of breast cancer distant recurrence. <i>Scientific Reports</i> , 2021, 11, 9461.	1.6	11
1119	A Dynamic Ensemble Learning Algorithm based on K-means for ICU mortality prediction. <i>Applied Soft Computing Journal</i> , 2021, 103, 107166.	4.1	17
1120	Medical Information Mart for Intensive Care: A Foundation for the Fusion of Artificial Intelligence and Real-World Data. <i>Frontiers in Artificial Intelligence</i> , 2021, 4, 691626.	2.0	9
1121	International Normalized Ratio to Albumin Ratio (PTAR): An Objective Risk Stratification Tool in Patients with Sepsis. <i>International Journal of General Medicine</i> , 2021, Volume 14, 1829-1841.	0.8	4
1122	Latent transition analysis of cardiac arrest patients treated in the intensive care unit. <i>PLoS ONE</i> , 2021, 16, e0252318.	1.1	0
1123	Prognostic Value of Blood Urea Nitrogen/Creatinine Ratio for Septic Shock: An Analysis of the MIMIC-III Clinical Database. <i>BioMed Research International</i> , 2021, 2021, 1-16.	0.9	12
1124	Extracting COVID-19 diagnoses and symptoms from clinical text: A new annotated corpus and neural event extraction framework. <i>Journal of Biomedical Informatics</i> , 2021, 117, 103761.	2.5	32
1126	Evaluation of an Intelligent Edge Computing System for the Hospital Intensive Care Unit. , 2021, , .		3
1127	Inverse reinforcement learning in contextual MDPs. <i>Machine Learning</i> , 2021, 110, 2295-2334.	3.4	4
1128	Heart Rate Fluctuation and Mortality in Critically Ill Myocardial Infarction Patients: A Retrospective Cohort Study. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 577742.	1.1	7
1129	Systemic immune-inflammation index as a promising predictor of mortality in patients with acute coronary syndrome: a real-world study. <i>Journal of International Medical Research</i> , 2021, 49, 030006052110162.	0.4	16
1130	How machine learning is impacting research in atrial fibrillation: implications for risk prediction and future management. <i>Cardiovascular Research</i> , 2021, 117, 1700-1717.	1.8	39
1131	Use of deep learning to develop continuous-risk models for adverse event prediction from electronic health records. <i>Nature Protocols</i> , 2021, 16, 2765-2787.	5.5	41
1132	Critical care Database for Advanced Research (CEDAR): An automated method to support intensive care units with electronic health record data. <i>Journal of Biomedical Informatics</i> , 2021, 118, 103789.	2.5	18

#	ARTICLE	IF	CITATIONS
1133	Developing a research database of primary aldosteronism: rationale and baseline characteristics. BMC Endocrine Disorders, 2021, 21, 137.	0.9	2
1134	Impact of socio-economic status and race on emergency hospital admission outcomes: Analysis from hospital admissions between 2001 and 2012. Health Services Management Research, 2021, , 095148482110121.	1.0	2
1135	Open science saves lives: lessons from the COVID-19 pandemic. BMC Medical Research Methodology, 2021, 21, 117.	1.4	122
1136	EMR2vec: Bridging the gap between patient data and clinical trial. Computers and Industrial Engineering, 2021, 156, 107236.	3.4	15
1137	A deep attention model to forecast the Length Of Stay and the in-hospital mortality right on admission from ICD codes and demographic data. Journal of Biomedical Informatics, 2021, 118, 103778.	2.5	20
1138	Real-world Patient Trajectory Prediction from Clinical Notes Using Artificial Neural Networks and UMLS-Based Extraction of Concepts. Journal of Healthcare Informatics Research, 2021, 5, 474-496.	5.3	5
1139	Generalization in Clinical Prediction Models: The Blessing and Curse of Measurement Indicator Variables. , 2021, 3, e0453.		9
1140	Big Data in Nephrology. Nature Reviews Nephrology, 2021, 17, 676-687.	4.1	10
1141	Towards similarity-based differential diagnostics for common diseases. Computers in Biology and Medicine, 2021, 133, 104360.	3.9	14
1142	CHART-ADAPT: Enabling actionable analytics at the critical care unit bedside. , 2021, , .		1
1143	Individualized Mechanical power-based ventilation strategy for acute respiratory failure formalized by finite mixture modeling and dynamic treatment regimen. EClinicalMedicine, 2021, 36, 100898.	3.2	11
1144	Association of Timing of Biliary Drainage with Clinical Outcomes in Severe Acute Cholangitis: A Retrospective Cohort Study. International Journal of General Medicine, 2021, Volume 14, 2953-2963.	0.8	7
1145	Continuous Cnn For Nonuniform Time Series. , 2021, , .		0
1146	Practice and Experience in using Parallel and Scalable Machine Learning with Heterogenous Modular Supercomputing Architectures. , 2021, , .		4
1147	Towards an Explainable Model for Sepsis Detection Based on Sensitivity Analysis. Irbm, 2022, 43, 75-86.	3.7	4
1148	Pharmacokinetic/pharmacodynamic evaluation of tobramycin dosing in critically ill patients: the Hartford nomogram does not fit. Journal of Antimicrobial Chemotherapy, 2021, 76, 2335-2341.	1.3	2
1149	Utilization of Echocardiography After Acute Kidney Injury Was Associated with Improved Outcomes in Patients in Intensive Care Unit. International Journal of General Medicine, 2021, Volume 14, 2205-2213.	0.8	5
1150	A deep database of medical abbreviations and acronyms for natural language processing. Scientific Data, 2021, 8, 149.	2.4	13

#	ARTICLE	IF	CITATIONS
1151	Clinical Notes Mining for Post Discharge Mortality Prediction. IETE Technical Review (Institution of Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.1	1
1152	Clinical Report Classification: Continually Learning from User Feedback. , 2021, , .		1
1153	Predicting ventilator-associated pneumonia with machine learning. Medicine (United States), 2021, 100, e26246.	0.4	13
1155	REDECA: A Novel Framework to Review Artificial Intelligence and Its Applications in Occupational Safety and Health. International Journal of Environmental Research and Public Health, 2021, 18, 6705.	1.2	23
1156	Medical Entity Disambiguation Using Graph Neural Networks. , 2021, , .		17
1157	Assessment of deep learning based blood pressure prediction from PPG and rPPG signals. , 2021, , .		21
1158	A proposal for the supplementation of traditional Postmarket Surveillance systems based on Named Entity Recognition. , 2021, , .		0
1160	Association of fluid balance with mortality in sepsis is modified by admission hemoglobin levels: A large database study. PLoS ONE, 2021, 16, e0252629.	1.1	4
1161	Editorial: Registries and Population Databases in Clinical Research and Practice. Medical Science Monitor, 2021, 27, e933554.	0.5	4
1162	Semantic enrichment of data for AI applications. , 2021, , .		5
1163	Performance of D-dimer for predicting sepsis mortality in the intensive care unit. Biochemia Medica, 2021, 31, 309-317.	1.2	15
1164	Deep learning to predict long-term mortality in patients requiring 7 days of mechanical ventilation. PLoS ONE, 2021, 16, e0253443.	1.1	5
1165	Biomedical and clinical English model packages for the Stanza Python NLP library. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 1892-1899.	2.2	63
1166	Clinically relevant pretraining is all you need. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 1970-1976.	2.2	8
1168	Evaluation of leukopenia during sepsis as a marker of sepsis-defining organ dysfunction. PLoS ONE, 2021, 16, e0252206.	1.1	25
1169	Analysis of the Impact of Medical Features and Risk Prediction of Acute Kidney Injury for Critical Patients Using Temporal Electronic Health Record Data With Attention-Based Neural Network. Frontiers in Medicine, 2021, 8, 658665.	1.2	4
1170	Estimating the class prior for positive and unlabelled data via logistic regression. Advances in Data Analysis and Classification, 2021, 15, 1039-1068.	0.9	4
1172	Body Mass Index Is Associated with the Severity and All-Cause Mortality of Acute Kidney Injury in Critically Ill Patients: An Analysis of a Large Critical Care Database. BioMed Research International, 2021, 2021, 1-11.	0.9	7

#	ARTICLE	IF	CITATIONS
1173	Multitask prediction of organ dysfunction in the intensive care unit using sequential subnetwork routing. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2021, 28, 1936-1946.	2.2	7
1174	Development and External Validation a Novel Inflammation-Based Score for Acute Kidney Injury and Prognosis in Intensive Care Unit Patients. <i>International Journal of General Medicine</i> , 2021, Volume 14, 2215-2226.	0.8	2
1175	Feasibility of atrial fibrillation detection from a novel wearable armband device. <i>Cardiovascular Digital Health Journal</i> , 2021, 2, 179-191.	0.5	12
1176	Machine learning in clinical decision making. <i>Med</i> , 2021, 2, 642-665.	2.2	49
1177	Exploratory Analysis of Disease Characteristics and Demographic Data of Neonatal Patients using MIMIC-IV Database. , 2021, , .		2
1178	Predicting Risk of Mortality in Pediatric ICU Based on Ensemble Step-Wise Feature Selection. <i>Health Data Science</i> , 2021, 2021, .	1.1	2
1180	A review of irregular time series data handling with gated recurrent neural networks. <i>Neurocomputing</i> , 2021, 441, 161-178.	3.5	127
1181	Pathophysiologic Signature of Impending ICU Hypoglycemia in Bedside Monitoring and Electronic Health Record Data: Model Development and External Validation. <i>Critical Care Medicine</i> , 2022, 50, e221-e230.	0.4	12
1182	Review of Temporal Reasoning in the Clinical Domain for Timeline Extraction: Where we are and where we need to be. <i>Journal of Biomedical Informatics</i> , 2021, 118, 103784.	2.5	6
1183	Simulation-derived best practices for clustering clinical data. <i>Journal of Biomedical Informatics</i> , 2021, 118, 103788.	2.5	10
1184	Impact of obesity on outcomes in patients with acute respiratory syndrome. <i>Journal of International Medical Research</i> , 2021, 49, 030006052110248.	0.4	3
1185	Prognostic Value of the Red Cell Distribution Width in Patients with Sepsis-Induced Acute Respiratory Distress Syndrome: A Retrospective Cohort Study. <i>Disease Markers</i> , 2021, 2021, 1-8.	0.6	6
1186	Lactate is Associated with Increased 30-Day Mortality in Critically Ill Patients with Alcohol Use Disorder. <i>International Journal of General Medicine</i> , 2021, Volume 14, 2741-2749.	0.8	1
1187	An explainable machine learning algorithm for risk factor analysis of in-hospital mortality in sepsis survivors with ICU readmission. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 204, 106040.	2.6	31
1188	SepINav (Sepsis ICU Navigator): A data-driven software tool for sepsis monitoring and intervention using Bayesian Online Change Point Detection. <i>SoftwareX</i> , 2021, 14, 100689.	1.2	3
1189	Impact of Different Approaches to Preparing Notes for Analysis With Natural Language Processing on the Performance of Prediction Models in Intensive Care. , 2021, 3, e0450.		5
1190	Proton pump inhibitors versus histamine-2 receptor blockers for stress ulcer prophylaxis in patients with sepsis: a retrospective cohort study. <i>Journal of International Medical Research</i> , 2021, 49, 030006052110251.	0.4	8
1191	Assisted Learning: Cooperative AI with Autonomy. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
1192	Predictive Analytics Based on Open Source Technologies for Acute Respiratory Distress Syndrome. , 2021, , .		0
1193	Algorithms for Prediction of Clinical Deterioration on the General Wards: A Scoping Review. Journal of Hospital Medicine, 2021, 16, 612-619.	0.7	7
1194	Efficient estimation in a partially specified nonignorable propensity score model. Computational Statistics and Data Analysis, 2022, 174, 107322.	0.7	2
1195	A Machine Learning-Based Algorithm for the Prediction of Intensive Care Unit Delirium (PRIDE): Retrospective Study. JMIR Medical Informatics, 2021, 9, e23401.	1.3	14
1196	A self-supervised method for treatment recommendation in sepsis. Frontiers of Information Technology and Electronic Engineering, 2021, 22, 926-939.	1.5	5
1197	Text Data Augmentation for Deep Learning. Journal of Big Data, 2021, 8, 101.	6.9	594
1198	Real-time Mortality Prediction Using MIMIC-IV ICU Data Via Boosted Nonparametric Hazards. , 2021, , .		6
1199	Association between low-density lipoprotein cholesterol level and mortality in patients with cardiogenic shock: a retrospective cohort study. BMJ Open, 2021, 11, e044668.	0.8	1
1202	A simple electronic medical record system designed for research. JAMIA Open, 2021, 4, ooab040.	1.0	2
1203	Multi-domain clinical natural language processing with MedCAT: The Medical Concept Annotation Toolkit. Artificial Intelligence in Medicine, 2021, 117, 102083.	3.8	86
1204	Deep Thompson Sampling for Length of Stay Prediction. , 2021, , .		0
1205	Universal Transformer Hawkes process. , 2021, , .		1
1206	Improving clinical outcome predictions using convolution over medical entities with multimodal learning. Artificial Intelligence in Medicine, 2021, 117, 102112.	3.8	11
1208	Hybridized neural networks for non-invasive and continuous mortality risk assessment in neonates. Computers in Biology and Medicine, 2021, 134, 104521.	3.9	8
1209	Machine learning for modeling the progression of Alzheimer disease dementia using clinical data: a systematic literature review. JAMIA Open, 2021, 4, ooab052.	1.0	44
1210	Are synthetic clinical notes useful for real natural language processing tasks: A case study on clinical entity recognition. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 2193-2201.	2.2	17
1211	Simulating Study Design Choice Effects on Observed Performance of Predictive Patient Monitoring Alarm Algorithms. , 2021, 2021, .		0
1212	Association between comorbid asthma and prognosis of critically ill patients with severe sepsis: a cohort study. Scientific Reports, 2021, 11, 15395.	1.6	3

#	ARTICLE	IF	CITATIONS
1213	The Relationship Between Prognostic Nutritional Index and All-Cause Mortality in Critically Ill Patients: A Retrospective Study. <i>International Journal of General Medicine</i> , 2021, Volume 14, 3619-3626.	0.8	7
1214	Cognitive Computing-Based CDSS in Medical Practice. <i>Health Data Science</i> , 2021, 2021, .	1.1	4
1215	Prediction of weaning from mechanical ventilation using Convolutional Neural Networks. <i>Artificial Intelligence in Medicine</i> , 2021, 117, 102087.	3.8	38
1216	Hospital Length of Stay Prediction Methods. <i>Medical Care</i> , 2021, 59, 929-938.	1.1	17
1217	A predictive framework in healthcare: Case study on cardiac arrest prediction. <i>Artificial Intelligence in Medicine</i> , 2021, 117, 102099.	3.8	8
1218	Establishment and validation of the predictive model for the in-hospital death in patients with sepsis. <i>American Journal of Infection Control</i> , 2021, 49, 1515-1521.	1.1	4
1219	Effect of early hyperoxemia on mortality in mechanically ventilated septic shock patients according to Sepsis-3 criteria: analysis of the MIMIC-III database. <i>European Journal of Emergency Medicine</i> , 2021, 28, 469-475.	0.5	6
1220	The effect of ventilator-associated pneumonia on the prognosis of intensive care unit patients within 90 days and 180 days. <i>BMC Infectious Diseases</i> , 2021, 21, 684.	1.3	17
1221	Multi-Label Classification of ICD-10 Coding & Clinical Notes Using MIMIC & CodiEsp. , 2021, , .		1
1222	Effect of language interpretation modality on throughput and mortality for critical care patients: A retrospective observational study. <i>Journal of the American College of Emergency Physicians Open</i> , 2021, 2, e12477.	0.4	3
1224	A Weakly-Supervised Named Entity Recognition Machine Learning Approach for Emergency Medical Services Clinical Audit. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 7776.	1.2	3
1225	An exploratory data quality analysis of time series physiologic signals using a large-scale intensive care unit database. <i>JAMIA Open</i> , 2021, 4, ooab057.	1.0	7
1226	Blood glucose-related indicators are associated with in-hospital mortality in critically ill patients with acute pancreatitis. <i>Scientific Reports</i> , 2021, 11, 15351.	1.6	9
1227	Sparse Gated Mixture-of-Experts to Separate and Interpret Patient Heterogeneity in EHR data. , 2021, , .		2
1228	DynEHR: Dynamic adaptation of models with data heterogeneity in electronic health records. , 2021, , .		5
1229	Optimal Targets of the First 24-h Partial Pressure of Carbon Dioxide in Patients with Cerebral Injury: Data from the MIMIC-III and IV Database. <i>Neurocritical Care</i> , 2022, 36, 412-420.	1.2	8
1230	Medical code prediction via capsule networks and ICD knowledge. <i>BMC Medical Informatics and Decision Making</i> , 2021, 21, 55.	1.5	7
1231	Association Between Dexamethasone and Delirium in Critically Ill Patients: A Retrospective Cohort Study of a Large Clinical Database. <i>Journal of Surgical Research</i> , 2021, 263, 89-101.	0.8	6

#	ARTICLE	IF	CITATIONS
1233	Machine Learning Prediction Models for Mechanically Ventilated Patients: Analyses of the MIMIC-III Database. <i>Frontiers in Medicine</i> , 2021, 8, 662340.	1.2	29
1234	Dialysis adequacy predictions using a machine learning method. <i>Scientific Reports</i> , 2021, 11, 15417.	1.6	9
1235	Selection strategy for sedation depth in critically ill patients on mechanical ventilation. <i>BMC Medical Informatics and Decision Making</i> , 2021, 21, 79.	1.5	3
1236	Early Albumin Exposure After Cardiac Surgery. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2021, , .	0.6	4
1237	Thyroid hormone levels as a predictor marker predict the prognosis of patients with sepsis. <i>American Journal of Emergency Medicine</i> , 2021, 45, 42-47.	0.7	7
1238	Structuring clinical text with AI: Old versus new natural language processing techniques evaluated on eight common cardiovascular diseases. <i>Patterns</i> , 2021, 2, 100289.	3.1	15
1239	ImputEHR: A Visualization Tool of Imputation for the Prediction of Biomedical Data. <i>Frontiers in Genetics</i> , 2021, 12, 691274.	1.1	2
1240	Database-Less Extraction of Event Logs from Redo Logs. <i>Business Information Systems</i> , 0, , 73-82.	0.0	1
1241	Modern Clinical Text Mining: A Guide and Review. <i>Annual Review of Biomedical Data Science</i> , 2021, 4, 165-187.	2.8	27
1242	Prediction model of in-hospital mortality in intensive care unit patients with heart failure: machine learning-based, retrospective analysis of the MIMIC-III database. <i>BMJ Open</i> , 2021, 11, e044779.	0.8	34
1243	The Role of Artificial Intelligence and Machine Learning in Clinical Cardiac Electrophysiology. <i>Canadian Journal of Cardiology</i> , 2022, 38, 246-258.	0.8	6
1244	Multi-relational EHR representation learning with infusing information of Diagnosis and Medication. , 2021, , .		1
1245	A review of machine learning in hypertension detection and blood pressure estimation based on clinical and physiological data. <i>Biomedical Signal Processing and Control</i> , 2021, 68, 102813.	3.5	47
1246	Postoperative Neutrophil-to-Lymphocyte Ratio Is Associated with Mortality in Adult Patients After Cardiopulmonary Bypass Surgery: A Cohort Study. <i>Medical Science Monitor</i> , 2021, 27, e932954.	0.5	3
1247	Early prediction of diagnostic-related groups and estimation of hospital cost by processing clinical notes. <i>Npj Digital Medicine</i> , 2021, 4, 103.	5.7	20
1248	Prediction of blood lactate values in critically ill patients: a retrospective multi-center cohort study. <i>Journal of Clinical Monitoring and Computing</i> , 2022, 36, 1087-1097.	0.7	5
1249	Impact of sex on use of low tidal volume ventilation in invasively ventilated ICU patientsâ€™A mediation analysis using two observational cohorts. <i>PLoS ONE</i> , 2021, 16, e0253933.	1.1	14
1250	Impact of diagnosis code grouping method on clinical prediction model performance: A multi-site retrospective observational study. <i>International Journal of Medical Informatics</i> , 2021, 151, 104466.	1.6	1

#	ARTICLE	IF	CITATIONS
1251	The Relationship Between AKI in Patients With STEMI and Short-Term Mortality: A Propensity Score Matching Analysis. <i>Angiology</i> , 2021, 72, 733-739.	0.8	6
1252	The quest for better clinical word vectors: Ontology based and lexical vector augmentation versus clinical contextual embeddings. <i>Computers in Biology and Medicine</i> , 2021, 134, 104433.	3.9	9
1253	Improving natural language information extraction from cancer pathology reports using transfer learning and zero-shot string similarity. <i>JAMIA Open</i> , 2021, 4, ooab085.	1.0	2
1254	Thrombocytopenia and platelet count recovery in patients with sepsis-3: a retrospective observational study. <i>Platelets</i> , 2022, 33, 612-620.	1.1	12
1255	Restricted subtree learning to estimate an optimal dynamic treatment regime using observational data. <i>Statistics in Medicine</i> , 2021, 40, 5796-5812.	0.8	0
1256	Comparison of machine learning algorithms for mortality prediction in intensive care patients on multi-center critical care databases. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1163, 012027.	0.3	5
1257	Transformation of Electronic Health Records and Questionnaire Data to OMOP CDM: A Feasibility Study Using SG_T2DM Dataset. <i>Applied Clinical Informatics</i> , 2021, 12, 757-767.	0.8	13
1258	Cardio-pulmonary-renal interactions in ICU patients. Role of mechanical ventilation, venous congestion and perfusion deficit on worsening of renal function: Insights from the MIMIC-III database. <i>Journal of Critical Care</i> , 2021, 64, 100-107.	1.0	13
1259	Med7: A transferable clinical natural language processing model for electronic health records. <i>Artificial Intelligence in Medicine</i> , 2021, 118, 102086.	3.8	64
1260	VitalDB: fostering collaboration in anaesthesia research. <i>British Journal of Anaesthesia</i> , 2021, 127, 184-187.	1.5	7
1261	A New Time-Window Prediction Model For Traumatic Hemorrhagic Shock Based on Interpretable Machine Learning. <i>Shock</i> , 2022, 57, 48-56.	1.0	9
1262	Qualifying Certainty in Radiology Reports through Deep Learning-Based Natural Language Processing. <i>American Journal of Neuroradiology</i> , 2021, 42, 1755-1761.	1.2	4
1263	The Association Between Serum Anion Gap and All-Cause Mortality in Disseminated Intravascular Coagulation Patients: A Retrospective Analysis. <i>International Journal of General Medicine</i> , 2021, Volume 14, 4535-4544.	0.8	9
1264	Finding Potential Adverse Events in the Unstructured Text of Electronic Health Care Records: Development of the Shakespeare Method. <i>Jmirx Med</i> , 2021, 2, e27017.	0.2	6
1265	Privacy preserving neural networks for electronic health records de-identification. , 2021, , .		2
1266	Towards graph-based class-imbalance learning for hospital readmission. <i>Expert Systems With Applications</i> , 2021, 176, 114791.	4.4	16
1267	Development and validation of a model for the early prediction of the RRT requirement in patients with rhabdomyolysis. <i>American Journal of Emergency Medicine</i> , 2021, 46, 38-44.	0.7	2
1268	Nutritional indices at admission are associated with mortality rates of patients in the intensive care unit. <i>European Journal of Clinical Nutrition</i> , 2022, 76, 557-563.	1.3	6

#	ARTICLE	IF	CITATIONS
1269	Development and validation of a novel blending machine learning model for hospital mortality prediction in ICU patients with Sepsis. <i>BioData Mining</i> , 2021, 14, 40.	2.2	12
1271	Association Between the Admission Serum Bicarbonate and Short-Term and Long-Term Mortality in Acute Aortic Dissection Patients Admitted to the Intensive Care Unit. <i>International Journal of General Medicine</i> , 2021, Volume 14, 4183-4195.	0.8	4
1272	Temporal Minimal-World Query Answering over Sparse ABoxes. <i>Theory and Practice of Logic Programming</i> , 0, , 1-36.	1.1	0
1273	COPE-CAT. , 2021, , .		5
1274	Development of a generalizable natural language processing pipeline to extract physician-reported pain from clinical reports: Generated using publicly-available datasets and tested on institutional clinical reports for cancer patients with bone metastases. <i>Journal of Biomedical Informatics</i> , 2021, 120, 103864.	2.5	13
1275	Bilingual autoencoder-based efficient harmonization of multi-source private data for accurate predictive modeling. <i>Information Sciences</i> , 2021, 568, 403-426.	4.0	3
1276	A systematic review of automatic text summarization for biomedical literature and EHRs. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2021, 28, 2287-2297.	2.2	29
1277	Examining the Concordance in the Documented Pressure Injury Site, Stage, and Count in Medical Information Mart for Intensive Care-III. <i>Applied Clinical Informatics</i> , 2021, 12, 897-909.	0.8	4
1278	A novel solution of using deep learning for early prediction cardiac arrest in Sepsis patient: enhanced bidirectional long short-term memory (LSTM). <i>Multimedia Tools and Applications</i> , 2021, 80, 32639-32664.	2.6	10
1279	Effects of etomidate use in ICU patients on ventilator therapy: a study of 12,526 patients in an open database from a single center. <i>Korean Journal of Anesthesiology</i> , 2021, 74, 300-307.	0.9	2
1280	Atrial fibrillation increases inpatient and 4-year all-cause mortality in critically ill patients with liver cirrhosis. <i>Annals of Translational Medicine</i> , 2021, 9, 1239-1239.	0.7	4
1281	Physiological machine learning models for prediction of sepsis in hospitalized adults: An integrative review. <i>Intensive and Critical Care Nursing</i> , 2021, 65, 103035.	1.4	10
1282	A hybrid neural network for continuous and non-invasive estimation of blood pressure from raw electrocardiogram and photoplethysmogram waveforms. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 207, 106191.	2.6	41
1284	Assessment of a Modified Sandwich Estimator for Generalized Estimating Equations with Application to Opioid Poisoning in MIMIC-IV ICU Patients. <i>Stats</i> , 2021, 4, 650-664.	0.5	0
1285	Natural language processing enabling COVID-19 predictive analytics to support data-driven patient advising and pooled testing. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2021, 29, 12-21.	2.2	9
1286	Improving biomedical word representation with locally linear embedding. <i>Neurocomputing</i> , 2021, 447, 172-182.	3.5	2
1287	Association Between Anion Gap and Mortality in Critically Ill Patients with Cardiogenic Shock. <i>International Journal of General Medicine</i> , 2021, Volume 14, 4765-4773.	0.8	13
1288	Self-Supervised Adversarial Distribution Regularization for Medication Recommendation. , 2021, , .		17

#	ARTICLE	IF	CITATIONS
1289	Risk Factors Associated With Nonfatal Opioid Overdose Leading to Intensive Care Unit Admission: A Cross-sectional Study. JMIR Medical Informatics, 2021, 9, e32851.	1.3	5
1290	KGDAL. , 2021, 2021, .		6
1291	Development and Validation of an Arterial Pressure-Based Cardiac Output Algorithm Using a Convolutional Neural Network: Retrospective Study Based on Prospective Registry Data. JMIR Medical Informatics, 2021, 9, e24762.	1.3	4
1292	Development and Validation of a Nomogram for the Prediction of Hospital Mortality of Patients With Encephalopathy Caused by Microbial Infection: A Retrospective Cohort Study. Frontiers in Microbiology, 2021, 12, 737066.	1.5	9
1293	The Physiological Deep Learner: First application of multitask deep learning to predict hypotension in critically ill patients. Artificial Intelligence in Medicine, 2021, 118, 102118.	3.8	2
1294	Atrial Fibrillation Prediction from Critically Ill Sepsis Patients. Biosensors, 2021, 11, 269.	2.3	15
1295	MEDTO: Medical Data to Ontology Matching Using Hybrid Graph Neural Networks. , 2021, , .		8
1296	Early-Phase Urine Output and Severe-Stage Progression of Oliguric Acute Kidney Injury in Critical Care. Frontiers in Medicine, 2021, 8, 711717.	1.2	1
1297	Association of Post-operative Systolic Blood Pressure Variability With Mortality After Coronary Artery Bypass Grafting. Frontiers in Cardiovascular Medicine, 2021, 8, 717073.	1.1	6
1299	Systematic Review of Approaches to Preserve Machine Learning Performance in the Presence of Temporal Dataset Shift in Clinical Medicine. Applied Clinical Informatics, 2021, 12, 808-815.	0.8	31
1300	Fibrinogen-to-Albumin Ratio is Associated with All-Cause Mortality in Cancer Patients. International Journal of General Medicine, 2021, Volume 14, 4867-4875.	0.8	11
1301	Transformer-based named entity recognition for parsing clinical trial eligibility criteria. , 2021, 2021, .		8
1303	Development and Validation of Nomogram to Predict Long-Term Prognosis of Critically Ill Patients with Acute Myocardial Infarction. International Journal of General Medicine, 2021, Volume 14, 4247-4257.	0.8	5
1304	Association Between the Neutrophil Percentage-to-Albumin Ratio and Outcomes in Cardiac Intensive Care Unit Patients. International Journal of General Medicine, 2021, Volume 14, 4933-4943.	0.8	15
1306	Data mining in clinical big data: the frequently used databases, steps, and methodological models. Military Medical Research, 2021, 8, 44.	1.9	196
1307	Artificial intelligence explainability: the technical and ethical dimensions. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200363.	1.6	32
1308	MT-clinical BERT: scaling clinical information extraction with multitask learning. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 2108-2115.	2.2	21
1309	Improving domain adaptation in de-identification of electronic health records through self-training. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 2093-2100.	2.2	3

#	ARTICLE	IF	CITATIONS
1310	Association between body mass index and short-term mortality in patients with intra-abdominal infections: a retrospective, single-centre cohort study using the Medical Information Mart for Intensive Care database. <i>BMJ Open</i> , 2021, 11, e046623.	0.8	1
1311	Improvement of APACHE II score system for disease severity based on XGBoost algorithm. <i>BMC Medical Informatics and Decision Making</i> , 2021, 21, 237.	1.5	9
1312	Association between lactate/albumin ratio and all-cause mortality in patients with acute respiratory failure: A retrospective analysis. <i>PLoS ONE</i> , 2021, 16, e0255744.	1.1	15
1313	Probabilistic and Dynamic Molecule-Disease Interaction Modeling for Drug Discovery. , 2021, , .		1
1314	Ventilatory Variables and Mechanical Power in Patients with Acute Respiratory Distress Syndrome. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021, 204, 303-311.	2.5	148
1315	The Dutch Data Warehouse, a multicenter and full-admission electronic health records database for critically ill COVID-19 patients. <i>Critical Care</i> , 2021, 25, 304.	2.5	22
1318	Association Between Obstructive Sleep Apnea and Reduced Mortality in Critically Ill Patients: A Propensity Score-Based Analysis. <i>International Journal of General Medicine</i> , 2021, Volume 14, 4723-4729.	0.8	3
1319	Imputation of the continuous arterial line blood pressure waveform from non-invasive measurements using deep learning. <i>Scientific Reports</i> , 2021, 11, 15755.	1.6	33
1320	Notable Papers and New Directions in Sensors, Signals, and Imaging Informatics. <i>Yearbook of Medical Informatics</i> , 2021, 30, 150-158.	0.8	5
1321	A Review of Recent Work in Transfer Learning and Domain Adaptation for Natural Language Processing of Electronic Health Records. <i>Yearbook of Medical Informatics</i> , 2021, 30, 239-244.	0.8	16
1322	The role of machine learning in clinical research: transforming the future of evidence generation. <i>Trials</i> , 2021, 22, 537.	0.7	82
1323	TimeSHAP: Explaining Recurrent Models through Sequence Perturbations. , 2021, , .		22
1326	A trauma-related survival predictive model of acute respiratory distress syndrome. <i>Journal of Clinical Laboratory Analysis</i> , 2021, 35, e24006.	0.9	7
1327	MeSIN: Multilevel selective and interactive network for medication recommendation. <i>Knowledge-Based Systems</i> , 2021, 233, 107534.	4.0	9
1328	A novel hybrid deep learning architecture for predicting acute kidney injury using patient record data and ultrasound kidney images. <i>Applied Artificial Intelligence</i> , 2021, 35, 1329-1345.	2.0	3
1329	Interpretability of time-series deep learning models: A study in cardiovascular patients admitted to Intensive care unit. <i>Journal of Biomedical Informatics</i> , 2021, 121, 103876.	2.5	22
1330	Association between serum phosphate and mortality in critically ill patients: a large retrospective cohort study. <i>BMJ Open</i> , 2021, 11, e044473.	0.8	7
1331	TSI-GNN: Extending Graph Neural Networks to Handle Missing Data in Temporal Settings. <i>Frontiers in Big Data</i> , 2021, 4, 693869.	1.8	3

#	ARTICLE	IF	CITATIONS
1332	Limitations of Transformers on Clinical Text Classification. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021, 25, 3596-3607.	3.9	61
1333	The need to separate the wheat from the chaff in medical informatics. <i>International Journal of Medical Informatics</i> , 2021, 153, 104510.	1.6	128
1334	Effect of ondansetron on reducing ICU mortality in patients with acute kidney injury. <i>Scientific Reports</i> , 2021, 11, 19409.	1.6	6
1335	Transgender data collection in the electronic health record: Current concepts and issues. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2022, 29, 271-284.	2.2	84
1336	Privacy-first health research with federated learning. <i>Npj Digital Medicine</i> , 2021, 4, 132.	5.7	58
1337	Hypophosphataemia is common in patients with aneurysmal subarachnoid haemorrhage. <i>Acta Anaesthesiologica Scandinavica</i> , 2021, 65, 1431-1438.	0.7	4
1338	Using Restricted Cubic Splines to Study the Trajectory of Systolic Blood Pressure in the Prognosis of Acute Myocardial Infarction. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 740580.	1.1	2
1339	Admission white blood cell count predicts post-discharge mortality in patients with acute aortic dissection: data from the MIMIC-III database. <i>BMC Cardiovascular Disorders</i> , 2021, 21, 462.	0.7	5
1340	Prognostic Association Between Perioperative Red Blood Cell Transfusion and Postoperative Cardiac Surgery Outcomes. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 730492.	1.1	3
1342	Relationship Between First 24-h Mean Body Temperature and Clinical Outcomes of Post-cardiac Surgery Patients. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 746228.	1.1	6
1343	Establishment of a prognostic model for patients with sepsis based on SOFA: a retrospective cohort study. <i>Journal of International Medical Research</i> , 2021, 49, 030006052110448.	0.4	5
1345	Interpretable Machine Learning Model for Early Prediction of Mortality in ICU Patients with Rhabdomyolysis. <i>Medicine and Science in Sports and Exercise</i> , 2021, 53, 1826-1834.	0.2	10
1346	FairLens: Auditing black-box clinical decision support systems. <i>Information Processing and Management</i> , 2021, 58, 102657.	5.4	38
1347	Recognizing blood pressure patterns in sedated critically ill patients on mechanical ventilation by spectral clustering. <i>Annals of Translational Medicine</i> , 2021, 9, 1404-1404.	0.7	2
1348	Elastic statistical analysis of interval-valued time series. <i>Journal of Applied Statistics</i> , 2023, 50, 60-85.	0.6	1
1349	Clinical impact of visually assessed right ventricular dysfunction in patients with septic shock. <i>Scientific Reports</i> , 2021, 11, 18823.	1.6	5
1350	Feature Explanations in Recurrent Neural Networks for Predicting Risk of Mortality in Intensive Care Patients. <i>Journal of Personalized Medicine</i> , 2021, 11, 934.	1.1	10
1351	Label distribution for multimodal machine learning. <i>Frontiers of Computer Science</i> , 2022, 16, 1.	1.6	11

#	ARTICLE	IF	CITATIONS
1352	Dynamic prediction of late noninvasive ventilation failure in intensive care unit using a time adaptive machine model. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 208, 106290.	2.6	2
1354	Classification of blood pressure in critically ill patients using photoplethysmography and machine learning. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 208, 106222.	2.6	22
1355	Association Between Oxygen Partial Pressure Trajectories and Short-Term Outcomes in Patients With Hemorrhagic Brain Injury. <i>Frontiers in Medicine</i> , 2021, 8, 681200.	1.2	2
1356	The Problem of Fairness in Synthetic Healthcare Data. <i>Entropy</i> , 2021, 23, 1165.	1.1	28
1357	Practical Guide to Natural Language Processing for Radiology. <i>Radiographics</i> , 2021, 41, 1446-1453.	1.4	21
1358	Assessment of Non-Invasive Blood Pressure Prediction from PPG and rPPG Signals Using Deep Learning. <i>Sensors</i> , 2021, 21, 6022.	2.1	57
1359	Association between anion gap and mortality of aortic aneurysm in intensive care unit after open surgery. <i>BMC Cardiovascular Disorders</i> , 2021, 21, 458.	0.7	9
1360	Inhaled Beta2-Agonists Increase In-Hospital Mortality in ICU Patients with Heart Failure. <i>International Heart Journal</i> , 2021, 62, 1076-1082.	0.5	1
1361	A Disease-Specific Language Representation Model for Cerebrovascular Disease Research. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 211, 106446.	2.6	5
1362	A Machine Learning Sepsis Prediction Algorithm for Intended Intensive Care Unit Use (NAVOY Sepsis): Proof-of-Concept Study. <i>JMIR Formative Research</i> , 2021, 5, e28000.	0.7	14
1366	Association Between Postoperative Thrombocytopenia and Outcomes After Coronary Artery Bypass Grafting Surgery. <i>Frontiers in Surgery</i> , 2021, 8, 747986.	0.6	1
1367	A Survey on Recent Named Entity Recognition and Relationship Extraction Techniques on Clinical Texts. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 8319.	1.3	34
1368	The effect of dobutamine vs milrinone in sepsis: A big data, real-world study. <i>International Journal of Clinical Practice</i> , 2021, 75, e14689.	0.8	5
1369	Estimation of Baseline Serum Creatinine with Machine Learning. <i>American Journal of Nephrology</i> , 2021, 52, 753-762.	1.4	4
1370	Artificial Intelligence and Mapping a New Direction in Laboratory Medicine: A Review. <i>Clinical Chemistry</i> , 2021, 67, 1466-1482.	1.5	24
1371	Association Between Red Blood Cell Distribution Width-to-Albumin Ratio and Prognosis of Patients with Aortic Aneurysms. <i>International Journal of General Medicine</i> , 2021, Volume 14, 6287-6294.	0.8	23
1372	Acute kidney injury detection using refined and physiological-feature augmented urine output. <i>Scientific Reports</i> , 2021, 11, 19561.	1.6	1
1373	Unified concept and assertion detection using contextual multi-task learning in a clinical decision support system. <i>Journal of Biomedical Informatics</i> , 2021, 122, 103898.	2.5	6

#	ARTICLE	IF	CITATIONS
1374	Integrating a spoken dialogue system, nursing records, and activity data collection based on smartphones. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 210, 106364.	2.6	5
1375	Medical Data Mining Course Development in Postgraduate Medical Education: Web-Based Survey and Case Study. <i>JMIR Medical Education</i> , 2021, 7, e24027.	1.2	2
1377	Albumin corrected anion gap for predicting in-hospital mortality among intensive care patients with sepsis: A retrospective propensity score matching analysis. <i>Clinica Chimica Acta</i> , 2021, 521, 272-277.	0.5	25
1378	Comparison of prognosis predictive value of 4 disease severity scoring systems in patients with acute respiratory failure in intensive care unit. <i>Medicine (United States)</i> , 2021, 100, e27380.	0.4	10
1379	Diuretic strategies in patients with resistance to loop-diuretics in the intensive care unit: A retrospective study from the MIMIC-III database. <i>Journal of Critical Care</i> , 2021, 65, 282-291.	1.0	9
1380	Universal transformer Hawkes process with adaptive recursive iteration. <i>Engineering Applications of Artificial Intelligence</i> , 2021, 105, 104416.	4.3	2
1381	Delaying initiation of diuretics in critically ill patients with recent vasopressor use and high positive fluid balance. <i>British Journal of Anaesthesia</i> , 2021, 127, 569-576.	1.5	4
1382	A keyphrase-based approach for interpretable ICD-10 code classification of Spanish medical reports. <i>Artificial Intelligence in Medicine</i> , 2021, 121, 102177.	3.8	9
1383	Machine learning based early mortality prediction in the emergency department. <i>International Journal of Medical Informatics</i> , 2021, 155, 104570.	1.6	12
1384	Multi-faceted semantic clustering with text-derived phenotypes. <i>Computers in Biology and Medicine</i> , 2021, 138, 104904.	3.9	3
1385	Deep dynamic imputation of clinical time series for mortality prediction. <i>Information Sciences</i> , 2021, 579, 607-622.	4.0	13
1386	A methodology based on Trace-based clustering for patient phenotyping. <i>Knowledge-Based Systems</i> , 2021, 232, 107469.	4.0	5
1387	Landscape of biomedical informatics standards and terminologies for clinical sleep medicine research: A systematic review. <i>Sleep Medicine Reviews</i> , 2021, 60, 101529.	3.8	6
1388	Electronic health records based reinforcement learning for treatment optimizing. <i>Information Systems</i> , 2022, 104, 101878.	2.4	21
1389	Temporal Relation Extraction in Clinical Texts. <i>ACM Computing Surveys</i> , 2022, 54, 1-36.	16.1	9
1390	Circadian variation in new-onset atrial fibrillation in patients in ICUs. <i>Journal of Critical Care</i> , 2022, 67, 1-2.	1.0	2
1391	Automated ICD Coding Using Deep Learning. <i>Advances in Healthcare Information Systems and Administration Book Series</i> , 2022, , 115-127.	0.2	1
1392	Semantic Information Retrieval on Medical Texts. <i>ACM Computing Surveys</i> , 2022, 54, 1-38.	16.1	14

#	ARTICLE	IF	CITATIONS
1393	Predictive value of neutrophil-leucocyte in cardiac surgery. <i>Annals of Translational Medicine</i> , 2021, 9, 82-82.	0.7	0
1394	Association between normalized lactate load and mortality in patients with septic shock: an analysis of the MIMIC-III database. <i>BMC Anesthesiology</i> , 2021, 21, 16.	0.7	13
1399	Multi-label legal document classification: A deep learning-based approach with label-attention and domain-specific pre-training. <i>Information Systems</i> , 2022, 106, 101718.	2.4	29
1401	ToraxIA: Virtual Assistant for Radiologists Based on Deep Learning from Chest X-Ray. <i>Advances in Intelligent Systems and Computing</i> , 2021, , 49-63.	0.5	4
1402	ImputeRNN: Imputing Missing Values in Electronic Medical Records. <i>Lecture Notes in Computer Science</i> , 2021, , 413-428.	1.0	0
1403	Inheritance-Guided Hierarchical Assignment for Clinical Automatic Diagnosis. <i>Lecture Notes in Computer Science</i> , 2021, , 461-477.	1.0	4
1404	Teaching Analytics Medical-Data Common Sense. <i>Lecture Notes in Computer Science</i> , 2021, , 171-187.	1.0	0
1405	Blood Urea Nitrogen to Serum Albumin Ratio Independently Predicts Mortality in Critically Ill Patients With Acute Pulmonary Embolism. <i>Clinical and Applied Thrombosis/Hemostasis</i> , 2021, 27, 107602962110102.	0.7	24
1406	Attack-agnostic Adversarial Detection on Medical Data Using Explainable Machine Learning. , 2021, , .		10
1407	Improving Prediction of Low-Prior Clinical Events with Simultaneous General Patient-State Representation Learning. <i>Lecture Notes in Computer Science</i> , 2021, 12721, 479-490.	1.0	0
1408	Enhancing the Value of Counterfactual Explanations for Deep Learning. <i>Lecture Notes in Computer Science</i> , 2021, , 389-394.	1.0	2
1409	Personalized Blood Pressure Estimation Using Photoplethysmography: A Transfer Learning Approach. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2022, 26, 218-228.	3.9	39
1410	Improving the In-Hospital Mortality Prediction of Diabetes ICU Patients Using a Process Mining/Deep Learning Architecture. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2022, 26, 388-399.	3.9	39
1411	Self-attention Enhanced Patient Journey Understanding in Healthcare System. <i>Lecture Notes in Computer Science</i> , 2021, , 719-735.	1.0	6
1414	Modeling Diagnostic Label Correlation for Automatic ICD Coding. , 2021, , .		3
1415	Contextual explanation rules for neural clinical classifiers. , 2021, , .		0
1416	Does BERT Pretrained on Clinical Notes Reveal Sensitive Data?. , 2021, , .		19
1417	SemEval-2021 Task 10: Source-Free Domain Adaptation for Semantic Processing. , 2021, , .		4

#	ARTICLE	IF	CITATIONS
1420	SMAT: An Attention-Based Deep Learning Solution to the Automation of Schema Matching. Lecture Notes in Computer Science, 2021, 12843, 260-274.	1.0	3
1421	FLBench: A Benchmark Suite for Federated Learning. Communications in Computer and Information Science, 2021, , 166-176.	0.4	5
1422	Unifying Domain Adaptation and Domain Generalization for Robust Prediction Across Minority Racial Groups. Lecture Notes in Computer Science, 2021, , 521-537.	1.0	3
1423	Noise-tolerant similarity search in temporal medical data. Journal of Biomedical Informatics, 2021, 113, 103667.	2.5	4
1424	Artificial intelligence forecasting mortality at an intensive care unit and comparison to a logistic regression system. Einstein (Sao Paulo, Brazil), 2021, 19, eAO6283.	0.3	2
1425	Magic bullets: Drug repositioning and drug combinations. , 2022, , 770-788.		2
1426	Machine Learning for Biomedical Time Series Classification: From Shapelets to Deep Learning. Methods in Molecular Biology, 2021, 2190, 33-71.	0.4	14
1427	Closed-World Semantics for Conjunctive Queries with Negation over \mathcal{ELH} Ontologies. Lecture Notes in Computer Science, 2019, , 371-386.	1.0	2
1428	Mining Compact Predictive Pattern Sets Using Classification Model. Lecture Notes in Computer Science, 2019, 11526, 386-396.	1.0	6
1429	A Multi-modal Deep Learning Method for Classifying Chest Radiology Exams. Lecture Notes in Computer Science, 2019, , 323-335.	1.0	7
1430	Edge AIBench: Towards Comprehensive End-to-End Edge Computing Benchmarking. Lecture Notes in Computer Science, 2019, , 23-30.	1.0	36
1431	Comparing High Dimensional Word Embeddings Trained on Medical Text to Bag-of-Words for Predicting Medical Codes. Lecture Notes in Computer Science, 2020, , 97-108.	1.0	5
1432	Enhancing Event Log Quality: Detecting and Quantifying Timestamp Imperfections. Lecture Notes in Computer Science, 2020, , 309-326.	1.0	11
1433	Predicting Clinical Diagnosis from Patients Electronic Health Records Using BERT-Based Neural Networks. Lecture Notes in Computer Science, 2020, , 111-121.	1.0	12
1434	Multi-scale Temporal Memory for Clinical Event Time-Series Prediction. Lecture Notes in Computer Science, 2020, , 313-324.	1.0	4
1435	Sepsis Deterioration Prediction Using Channelled Long Short-Term Memory Networks. Lecture Notes in Computer Science, 2020, , 359-370.	1.0	4
1436	Acute Hypertensive Episodes Prediction. Lecture Notes in Computer Science, 2020, , 392-402.	1.0	5
1439	An Experimental Study of Time Series Based Patient Similarity with Graphs. Lecture Notes in Computer Science, 2020, , 467-474.	1.0	1

#	ARTICLE	IF	CITATIONS
1440	A Dynamic Data Warehousing Platform for Creating and Accessing Biomedical Data Lakes. Lecture Notes in Computer Science, 2017, , 101-120.	1.0	8
1441	PDD Graph: Bridging Electronic Medical Records and Biomedical Knowledge Graphs via Entity Linking. Lecture Notes in Computer Science, 2017, , 219-227.	1.0	21
1442	Category Multi-representation: A Unified Solution for Named Entity Recognition in Clinical Texts. Lecture Notes in Computer Science, 2018, , 275-287.	1.0	5
1444	Sequence-Based Measure for Assessing Drug-Side Effect Causal Relation from Electronic Medical Records. Communications in Computer and Information Science, 2017, , 53-65.	0.4	1
1445	Machine Learning for Pulmonary and Critical Care Medicine: A Narrative Review. Pulmonary Therapy, 2020, 6, 67-77.	1.1	28
1446	Machine and Deep Learning. , 2020, , 67-140.		6
1447	Capsule Neural Networks for structural damage localization and quantification using transmissibility data. Applied Soft Computing Journal, 2020, 97, 106732.	4.1	13
1448	Red blood cell distribution width is associated with mortality risk in patients with acute respiratory distress syndrome based on the Berlin definition: A propensity score matched cohort study. Heart and Lung: Journal of Acute and Critical Care, 2020, 49, 641-645.	0.8	24
1449	Active deep learning to detect demographic traits in free-form clinical notes. Journal of Biomedical Informatics, 2020, 107, 103436.	2.5	11
1450	Cohort selection for clinical trials using multiple instance learning. Journal of Biomedical Informatics, 2020, 107, 103438.	2.5	4
1451	Heterogeneous data release for cluster analysis with differential privacy. Knowledge-Based Systems, 2020, 201-202, 106047.	4.0	11
1452	Enhancing sepsis management through machine learning techniques: A review. Medicina Intensiva, 2022, 46, 140-156.	0.4	9
1453	The eICU Collaborative Research Database, a freely available multi-center database for critical care research. Scientific Data, 2018, 5, 180178.	2.4	677
1454	Rethinking animal models of sepsis – working towards improved clinical translation whilst integrating the 3Rs. Clinical Science, 2020, 134, 1715-1734.	1.8	12
1455	Enhancing statistical power in temporal biomarker discovery through representative shapelet mining. Bioinformatics, 2020, 36, i840-i848.	1.8	2
1456	Does BERT need domain adaptation for clinical negation detection?. Journal of the American Medical Informatics Association: JAMIA, 2020, 27, 584-591.	2.2	29
1457	Can reproducibility be improved in clinical natural language processing? A study of 7 clinical NLP suites. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 504-515.	2.2	17
1458	Building longitudinal medication dose data using medication information extracted from clinical notes in electronic health records. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 782-790.	2.2	2

#	ARTICLE	IF	CITATIONS
1459	Evaluation of Organ Dysfunction Scores for Allocation of Scarce Resources in Critically Ill Children and Adults During a Healthcare Crisis*. Critical Care Medicine, 2021, 49, 271-281.	0.4	9
1460	Platelets as a prognostic marker for sepsis. Medicine (United States), 2020, 99, e23151.	0.4	14
1474	Calibration-free Blood Pressure Assessment Using An Integrated Deep Learning Method. , 2020, , .		6
1475	Discovering and Analyzing Trend-Event Patterns on Clinical Data. , 2019, , .		6
1476	Safe Reinforcement Learning for Sepsis Treatment. , 2020, , .		7
1477	Heatmaps for Visual Explainability of CNN-Based Predictions for Multivariate Time Series with Application to Healthcare. , 2020, , .		15
1478	Using Multi-Level Information in Hierarchical Process Mining: Balancing Behavioural Quality and Model Complexity. , 2020, , .		13
1479	Integrating Text Embedding with Traditional NLP Features for Clinical Relation Extraction. , 2020, , .		7
1480	Automatic Medical Code Assignment via Deep Learning Approach for Intelligent Healthcare. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 2506-2515.	3.9	30
1481	Development and validation of a prognostic nomogram for myocardial infarction patients in intensive care units: a retrospective cohort study. BMJ Open, 2020, 10, e040291.	0.8	17
1482	Patient Subtyping via Time-Aware LSTM Networks. , 2017, , .		333
1483	GRAM. , 2017, 2017, 787-795.		368
1484	TRACER: A Framework for Facilitating Accurate and Interpretable Analytics for High Stakes Applications. , 2020, , .		13
1485	Causal Relational Learning. , 2020, , .		21
1486	DC3 -- A Diagnostic Case Challenge Collection for Clinical Decision Support. , 2019, , .		4
1487	CarePre. ACM Transactions on Computing for Healthcare, 2020, 1, 1-20.	3.3	28
1488	Doctor XAI. , 2020, , .		94
1489	Privacy-Preserving Tensor Factorization for Collaborative Health Data Analysis. , 2019, 2019, 1291-1300.		26

#	ARTICLE	IF	CITATIONS
1490	UA-CRNN: Uncertainty-Aware Convolutional Recurrent Neural Network for Mortality Risk Prediction. , 2019, , .		12
1491	Order-free Medicine Combination Prediction with Graph Convolutional Reinforcement Learning. , 2019, , .		35
1492	Text-to-SQL Generation for Question Answering on Electronic Medical Records. , 2020, , .		25
1493	StageNet: Stage-Aware Neural Networks for Health Risk Prediction. , 2020, , .		39
1494	Adversarial Cooperative Imitation Learning for Dynamic Treatment Regimes. , 2020, , .		10
1495	Hurtful words. , 2020, , .		55
1496	Deidentification of free-text medical records using pre-trained bidirectional transformers. , 2020, 2020, 214-221.		18
1497	Analyzing the role of model uncertainty for electronic health records. , 2020, , .		37
1498	Explaining an increase in predicted risk for clinical alerts. , 2020, , .		3
1499	MIMIC-Extract. , 2020, , .		59
1500	Deep Neural Learning for Automated Diagnostic Code Group Prediction Using Unstructured Nursing Notes. , 2020, , .		2
1501	GAN-Leaks: A Taxonomy of Membership Inference Attacks against Generative Models. , 2020, , .		107
1502	Attention and Memory-Augmented Networks for Dual-View Sequential Learning. , 2020, , .		16
1503	Hierarchical Attention Propagation for Healthcare Representation Learning. , 2020, , .		16
1504	INPREM: An Interpretable and Trustworthy Predictive Model for Healthcare. , 2020, , .		24
1505	COMPOSE: Cross-Modal Pseudo-Siamese Network for Patient Trial Matching. , 2020, , .		18
1506	Identifying Sepsis Subphenotypes via Time-Aware Multi-Modal Auto-Encoder. , 2020, , .		21
1507	Benchmarking a distributed database design that supports patient cohort identification. , 2020, , .		1

#	ARTICLE	IF	CITATIONS
1508	Predicting mortality in critically ill patients with diabetes using machine learning and clinical notes. BMC Medical Informatics and Decision Making, 2020, 20, 295.	1.5	51
1509	An interpretable risk prediction model for healthcare with pattern attention. BMC Medical Informatics and Decision Making, 2020, 20, 307.	1.5	9
1510	Survey on RNN and CRF models for de-identification of medical free text. Journal of Big Data, 2020, 7, .	6.9	25
1511	Electronic Medical Record Search Engine (EMERSE): An Information Retrieval Tool for Supporting Cancer Research. JCO Clinical Cancer Informatics, 2020, 4, 454-463.	1.0	21
1512	Red Blood Cell Distribution Width Is Associated with All-Cause Mortality in Critically Ill Patients with Cardiogenic Shock. Medical Science Monitor, 2019, 25, 7005-7015.	0.5	16
1513	Prognostic Value of Neutrophil-Lymphocyte Ratio in Cardiogenic Shock: A Cohort Study. Medical Science Monitor, 2020, 26, e922167.	0.5	13
1514	Outcomes for Patients with Sepsis Following Admission to the Intensive Care Unit Based on Health Insurance Status: A Study from the Medical Information Mart for Intensive Care-III (MIMIC-III) Database. Medical Science Monitor, 2020, 26, e924954.	0.5	2
1515	Curation of an intensive care research dataset from routinely collected patient data in an NHS trust.. F1000Research, 2019, 8, 1460.	0.8	7
1516	Comparing deep learning and concept extraction based methods for patient phenotyping from clinical narratives. PLoS ONE, 2018, 13, e0192360.	1.1	132
1517	Machine learning as a tool for diagnostic and prognostic research in coronary artery disease. Russian Journal of Cardiology, 2020, 25, 3999.	0.4	6
1518	ICD Coding from Clinical Text Using Multi-Filter Residual Convolutional Neural Network. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 8180-8187.	3.6	76
1519	Prognostic value of serum lactate kinetics in critically ill patients with cirrhosis and acute-on-chronic liver failure: a multicenter study. Aging, 2019, 11, 4446-4462.	1.4	10
1520	Clinical-Coder: Assigning Interpretable ICD-10 Codes to Chinese Clinical Notes. , 2020, , .		12
1521	Towards Transparent and Explainable Attention Models. , 2020, , .		35
1522	Closing the Gap: Joint De-Identification and Concept Extraction in the Clinical Domain. , 2020, , .		4
1523	Experimental Evaluation and Development of a Silver-Standard for the MIMIC-III Clinical Coding Dataset. , 2020, , .		7
1524	Comparative Analysis of Text Classification Approaches in Electronic Health Records. , 2020, , .		24
1525	Dilated Convolutional Attention Network for Medical Code Assignment from Clinical Text. , 2020, , .		10

#	ARTICLE	IF	CITATIONS
1526	Enhancing Clinical BERT Embedding using a Biomedical Knowledge Base. , 2020, , .		25
1527	CharacterBERT: Reconciling ELMo and BERT for Word-Level Open-Vocabulary Representations From Characters. , 2020, , .		43
1528	Explainable Clinical Decision Support from Text. , 2020, , .		11
1529	Multi-label Few/Zero-shot Learning with Knowledge Aggregated from Multiple Label Graphs. , 2020, , .		14
1530	Lessons from Natural Language Inference in the Clinical Domain. , 2018, , .		88
1531	emrQA: A Large Corpus for Question Answering on Electronic Medical Records. , 2018, , .		75
1532	Few-Shot and Zero-Shot Multi-Label Learning for Structured Label Spaces. , 2018, , .		103
1533	Attention is not not Explanation. , 2019, , .		317
1534	Incorporating Domain Knowledge into Medical NLI using Knowledge Graphs. , 2019, , .		16
1535	Using Clinical Notes with Time Series Data for ICU Management. , 2019, , .		19
1536	MedCATTrainer: A Biomedical Free Text Annotation Interface with Active Learning and Research Use Case Specific Customisation. , 2019, , .		19
1537	Writing habits and telltale neighbors: analyzing clinical concept usage patterns with sublanguage embeddings. , 2019, , .		2
1538	Recognizing UMLS Semantic Types with Deep Learning. , 2019, , .		4
1539	Ontological attention ensembles for capturing semantic concepts in ICD code prediction from clinical text. , 2019, , .		11
1540	On Model Stability as a Function of Random Seed. , 2019, , .		28
1541	Coherence-based Modeling of Clinical Concepts Inferred from Heterogeneous Clinical Notes for ICU Patient Risk Stratification. , 2019, , .		4
1542	Explainable Prediction of Medical Codes from Clinical Text. , 2018, , .		257
1543	EMR Coding with Semi-Parametric Multi-Head Matching Networks. , 2018, 2018, 2081-2091.		12

#	ARTICLE	IF	CITATIONS
1544	Using Similarity Measures to Select Pretraining Data for. , 2019, , .		29
1545	Title is missing!. , 2019, , .		194
1546	Neural Architecture for Temporal Relation Extraction: A Bi-LSTM Approach for Detecting Narrative Containers. , 2017, , .		52
1547	A Neural Architecture for Automated ICD Coding. , 2018, , .		58
1548	Joint Embedding of Words and Labels for Text Classification. , 2018, , .		237
1549	Neural Text Simplification of Clinical Letters with a Domain Specific Phrase Table. , 2019, , .		17
1550	Large-Scale Multi-Label Text Classification on EU Legislation. , 2019, , .		78
1551	Question Answering in the Biomedical Domain. , 2019, , .		5
1552	Embedding Strategies for Specialized Domains: Application to Clinical Entity Recognition. , 2019, , .		36
1553	LIMSI-COT at SemEval-2017 Task 12: Neural Architecture for Temporal Information Extraction from Clinical Narratives. , 2017, , .		11
1554	GUIR at SemEval-2017 Task 12: A Framework for Cross-Domain Clinical Temporal Information Extraction. , 2017, , .		13
1555	Learning Patient Representations from Text. , 2018, , .		6
1556	Using Distributed Representations to Disambiguate Biomedical and Clinical Concepts. , 2016, , .		16
1557	Ethical Research Protocols for Social Media Health Research. , 2017, , .		109
1558	Unsupervised Context-Sensitive Spelling Correction of Clinical Free-Text with Word and Character N-Gram Embeddings. , 2017, , .		29
1559	Clinical Event Detection with Hybrid Neural Architecture. , 2017, , .		1
1560	Embedding Transfer for Low-Resource Medical Named Entity Recognition: A Case Study on Patient Mobility. , 2018, , .		15
1561	Domain Adaptation for Disease Phrase Matching with Adversarial Networks. , 2018, , .		8

#	ARTICLE	IF	CITATIONS
1562	Self-training improves Recurrent Neural Networks performance for Temporal Relation Extraction. , 2018, , .		17
1563	An Analysis of Attention over Clinical Notes for Predictive Tasks. , 2019, , .		11
1564	Extracting Adverse Drug Event Information with Minimal Engineering. , 2019, 2019, 22-27.		7
1566	Publicly Available Clinical. , 2019, , .		703
1567	Medical Entity Linking using Triplet Network. , 2019, , .		29
1568	Medical Word Embeddings for. , 2019, , .		23
1569	Probing Biomedical Embeddings from Language Models. , 2019, , .		52
1570	Extreme Multi-Label Legal Text Classification: A Case Study in. , 2019, , .		30
1571	A Benchmark Corpus of English Misspellings and a Minimally-supervised Model for Spelling Correction. , 2019, , .		15
1572	Combining Structured and Free-text Electronic Medical Record Data for Real-time Clinical Decision Support. , 2019, , .		2
1573	Is artificial data useful for biomedical Natural Language Processing algorithms?. , 2019, , .		3
1574	Two-stage Federated Phenotyping and Patient Representation Learning. , 2019, 2019, 283-291.		44
1575	UU_TAILS at MEDIQA 2019: Learning Textual Entailment in the Medical Domain. , 2019, , .		5
1576	Evaluation of the updated "Candida score" with Sepsis 3.0 criteria in critically ill patients. Annals of Translational Medicine, 2020, 8, 917-917.	0.7	4
1577	Detecting insertion, substitution, and deletion errors in radiology reports using neural sequence-to-sequence models. Annals of Translational Medicine, 2019, 7, 233-233.	0.7	7
1578	Utilization of echocardiography during septic shock was associated with a decreased 28-day mortality: a propensity score-matched analysis of the MIMIC-III database. Annals of Translational Medicine, 2019, 7, 662-662.	0.7	20
1579	Critical care data processing tools. Journal of Open Source Software, 2017, 2, 513.	2.0	2
1581	Prospects and Challenges of Population Health with Online and other Big Data in Africa: Understanding the Link to Improving Healthcare Service Delivery. Advanced Journal of Social Science, 2019, 6, 57-63.	0.2	3

#	ARTICLE	IF	CITATIONS
1582	Association of Diabetes and Admission Blood Glucose Levels with Short-Term Outcomes in Patients with Critical Illnesses. <i>Journal of Inflammation Research</i> , 2020, Volume 13, 1151-1166.	1.6	11
1583	Rethinking Data Sharing at the Dawn of a Health Data Economy: A Viewpoint. <i>Journal of Medical Internet Research</i> , 2018, 20, e11519.	2.1	13
1584	A New Insight Into Missing Data in Intensive Care Unit Patient Profiles: Observational Study. <i>JMIR Medical Informatics</i> , 2019, 7, e11605.	1.3	43
1585	Identifying Clinical Terms in Medical Text Using Ontology-Guided Machine Learning. <i>JMIR Medical Informatics</i> , 2019, 7, e12596.	1.3	38
1586	Digital Health and the State of Interoperable Electronic Health Records. <i>JMIR Medical Informatics</i> , 2019, 7, e12712.	1.3	42
1587	Temporal Pattern Detection to Predict Adverse Events in Critical Care: Case Study With Acute Kidney Injury. <i>JMIR Medical Informatics</i> , 2020, 8, e14272.	1.3	14
1588	Combining Contextualized Embeddings and Prior Knowledge for Clinical Named Entity Recognition: Evaluation Study. <i>JMIR Medical Informatics</i> , 2019, 7, e14850.	1.3	24
1589	Real-World Integration of a Sepsis Deep Learning Technology Into Routine Clinical Care: Implementation Study. <i>JMIR Medical Informatics</i> , 2020, 8, e15182.	1.3	86
1590	A Predictive Model Based on Machine Learning for the Early Detection of Late-Onset Neonatal Sepsis: Development and Observational Study. <i>JMIR Medical Informatics</i> , 2020, 8, e15965.	1.3	26
1591	Learning Latent Space Representations to Predict Patient Outcomes: Model Development and Validation. <i>Journal of Medical Internet Research</i> , 2020, 22, e16374.	2.1	16
1592	Blockchain-Authenticated Sharing of Genomic and Clinical Outcomes Data of Patients With Cancer: A Prospective Cohort Study. <i>Journal of Medical Internet Research</i> , 2020, 22, e16810.	2.1	29
1593	Toward Optimal Heparin Dosing by Comparing Multiple Machine Learning Methods: Retrospective Study. <i>JMIR Medical Informatics</i> , 2020, 8, e17648.	1.3	17
1594	What You Need to Know Before Implementing a Clinical Research Data Warehouse: Comparative Review of Integrated Data Repositories in Health Care Institutions. <i>JMIR Formative Research</i> , 2020, 4, e17687.	0.7	17
1595	Modified Bidirectional Encoder Representations From Transformers Extractive Summarization Model for Hospital Information Systems Based on Character-Level Tokens (AlphaBERT): Development and Performance Evaluation. <i>JMIR Medical Informatics</i> , 2020, 8, e17787.	1.3	17
1596	Clinical Text Data in Machine Learning: Systematic Review. <i>JMIR Medical Informatics</i> , 2020, 8, e17984.	1.3	168
1597	Exploring the Privacy-Preserving Properties of Word Embeddings: Algorithmic Validation Study. <i>Journal of Medical Internet Research</i> , 2020, 22, e18055.	2.1	8
1598	Extraction of Information Related to Drug Safety Surveillance From Electronic Health Record Notes: Joint Modeling of Entities and Relations Using Knowledge-Aware Neural Attentive Models. <i>JMIR Medical Informatics</i> , 2020, 8, e18417.	1.3	20
1599	Reinforcement Learning for Clinical Decision Support in Critical Care: Comprehensive Review. <i>Journal of Medical Internet Research</i> , 2020, 22, e18477.	2.1	77

#	ARTICLE	IF	CITATIONS
1600	Measurement of Semantic Textual Similarity in Clinical Texts: Comparison of Transformer-Based Models. JMIR Medical Informatics, 2020, 8, e19735.	1.3	19
1601	Predicting Unplanned Readmissions Following a Hip or Knee Arthroplasty: Retrospective Observational Study. JMIR Medical Informatics, 2020, 8, e19761.	1.3	15
1602	Marrying Medical Domain Knowledge With Deep Learning on Electronic Health Records: A Deep Visual Analytics Approach. Journal of Medical Internet Research, 2020, 22, e20645.	2.1	17
1603	AutoScore: A Machine Learning-Based Automatic Clinical Score Generator and Its Application to Mortality Prediction Using Electronic Health Records. JMIR Medical Informatics, 2020, 8, e21798.	1.3	64
1604	A Racially Unbiased, Machine Learning Approach to Prediction of Mortality: Algorithm Development Study. JMIR Public Health and Surveillance, 2020, 6, e22400.	1.2	28
1605	Identification of Semantically Similar Sentences in Clinical Notes: Iterative Intermediate Training Using Multi-Task Learning. JMIR Medical Informatics, 2020, 8, e22508.	1.3	14
1606	Prediction of Sepsis in the Intensive Care Unit With Minimal Electronic Health Record Data: A Machine Learning Approach. JMIR Medical Informatics, 2016, 4, e28.	1.3	331
1607	Promoting Secondary Analysis of Electronic Medical Records in China: Summary of the PLAGH-MIT Critical Data Conference and Health Datathon. JMIR Medical Informatics, 2017, 5, e43.	1.3	16
1608	Privacy-Preserving Predictive Modeling: Harmonization of Contextual Embeddings From Different Sources. JMIR Medical Informatics, 2018, 6, e33.	1.3	12
1614	Closing the Data Loop: An Integrated Open Access Analysis Platform for the MIMIC Database. Computing in Cardiology, 2016, 43, 137-140.	0.4	5
1615	Medical Concept Embedding with Multiple Ontological Representations. , 2019, , .		30
1616	A Label Attention Model for ICD Coding from Clinical Text. , 2020, , .		54
1617	Recurrent Deep Network Models for Clinical NLP Tasks: Use Case with Sentence Boundary Disambiguation. Studies in Health Technology and Informatics, 2019, 264, 198-202.	0.2	3
1618	Stratified Mortality Prediction of Patients with Acute Kidney Injury in Critical Care. Studies in Health Technology and Informatics, 2019, 264, 462-466.	0.2	12
1619	A Path for Translation of Machine Learning Products into Healthcare Delivery. European Medical Journal Innovations, 0, , .	2.0	22
1620	Automated Confirmation of Protein Annotation Using NLP and the UniProtKB Database. Applied Sciences (Switzerland), 2021, 11, 24.	1.3	6
1621	Machine Learning-Based Automatic Classification of Video Recorded Neonatal Manipulations and Associated Physiological Parameters: A Feasibility Study. Children, 2021, 8, 1.	0.6	5
1622	Beat-to-Beat Continuous Blood Pressure Estimation Using Bidirectional Long Short-Term Memory Network. Sensors, 2021, 21, 96.	2.1	29

#	ARTICLE	IF	CITATIONS
1623	Machine Learning for Precision Health Economics and Outcomes Research (P-HEOR): Conceptual Review of Applications and Next Steps. <i>Journal of Health Economics and Outcomes Research</i> , 2020, 7, 35-42.	0.6	5
1624	Prognostic nutritional index predicts acute kidney injury and mortality of patients in the coronary care unit. <i>Experimental and Therapeutic Medicine</i> , 2020, 21, 123.	0.8	24
1625	Discovering hidden information in biosignals from patients using artificial intelligence. <i>Korean Journal of Anesthesiology</i> , 2020, 73, 275-284.	0.9	11
1626	Improved Survival of Cancer Patients Admitted to the Intensive Care Unit between 2002 and 2011 at a U.S. Teaching Hospital. <i>Cancer Research and Treatment</i> , 2019, 51, 973-981.	1.3	26
1627	Elixhauser comorbidity measures-based risk factors associated with 30-day mortality in elderly population after femur fracture surgery: a propensity score-matched retrospective case-control study. <i>Acute and Critical Care</i> , 2020, 35, 10-15.	0.6	7
1628	FoodOntoMap: Linking Food Concepts across Different Food Ontologies. , 2019, , .		12
1629	What Can We Learn about Fall Risk Factors from EHR Nursing Notes? A Text Mining Study. <i>EGEMS (Washington, DC)</i> , 2018, 6, 21.	2.0	21
1630	Predicting the Incidence of Pressure Ulcers in the Intensive Care Unit Using Machine Learning. <i>EGEMS (Washington, DC)</i> , 2019, 7, 49.	2.0	42
1631	Artificial intelligence and computer simulation models in critical illness. <i>World Journal of Critical Care Medicine</i> , 2020, 9, 13-19.	0.8	21
1632	The method of automatic assignment ICD codes based on semantic information. <i>Computer Science and Mathematical Modelling</i> , 2020, .	0.2	1
1634	What every intensivist should know about Big Data and targeted machine learning in the intensive care unit. <i>Revista Brasileira De Terapia Intensiva</i> , 2019, 31, 444-446.	0.1	2
1635	Spectral clustering of risk score trajectories stratifies sepsis patients by clinical outcome and interventions received. <i>ELife</i> , 2020, 9, .	2.8	15
1636	Prognosis predictive value of the Oxford Acute Severity of Illness Score for sepsis: a retrospective cohort study. <i>PeerJ</i> , 2019, 7, e7083.	0.9	28
1637	Association Between Peripheral Blood Oxygen Saturation (SpO ₂)/Fraction of Inspired Oxygen (FiO ₂) Ratio Time at Risk and Hospital Mortality in Mechanically Ventilated Patients. , 2020, 24, .		20
1638	GANs for Tabular Healthcare Data Generation: A Review on Utility and Privacy. <i>Lecture Notes in Computer Science</i> , 2021, , 282-291.	1.0	3
1639	VBridge: Connecting the Dots Between Features and Data to Explain Healthcare Models. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2022, 28, 378-388.	2.9	18
1640	Sequen-C: A Multilevel Overview of Temporal Event Sequences. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2022, 28, 901-911.	2.9	6
1641	Clinical Outcome Prediction from Admission Notes using Self-Supervised Knowledge Integration. , 2021, , .		18

#	ARTICLE	IF	CITATIONS
1642	Evaluating the state of the art in missing data imputation for clinical data. Briefings in Bioinformatics, 2022, 23, .	3.2	42
1643	Sepsis prediction, early detection, and identification using clinical text for machine learning: a systematic review. Journal of the American Medical Informatics Association: JAMIA, 2022, 29, 559-575.	2.2	31
1644	Prediction of Adverse Drug Reaction using Machine Learning and Deep Learning Based on an Imbalanced Electronic Medical Records Dataset. , 2021, , .		2
1645	Transformation and Evaluation of the MIMIC Database in the OMOP Common Data Model: Development and Usability Study. JMIR Medical Informatics, 2021, 9, e30970.	1.3	11
1646	Differentially Private Synthetic Mixed-Type Data Generation For Unsupervised Learning. , 2021, , .		4
1647	Automatic Assignment of ICD-10 Codes to Diagnostic Texts using Transformers Based Techniques. , 2021, , .		2
1648	Interpretable Phenotyping for Electronic Health Records. , 2021, , .		1
1649	CATAN: Chart-aware temporal attention network for adverse outcome prediction. , 2021, 2021, 83-92.		0
1650	Identify Diabetic Retinopathy-related Clinical Concepts Using Transformer-based Natural Language Processing Methods. , 2021, , .		0
1651	Deep Masking Generative Network For Irregularly Sampled Multivariate Time Series. , 2021, , .		0
1652	Neural Medication Extraction: A Comparison of Recent Models in Supervised and Semi-supervised Learning Settings. , 2021, , .		0
1653	Contrastive Representations Pre-Training for Enhanced Discharge Summary BERT. , 2021, , .		1
1654	Health Informatics: Clinical Information Systems and Artificial Intelligence to Support Medicine in the CoViD-19 Pandemic. , 2021, , .		9
1655	Explainable Deep Learning for Readmission Prediction with Tree-GloVe Embedding. , 2021, , .		3
1656	On the early detection of Sepsis in MIMIC-III. , 2021, , .		3
1658	Beyond Simple Images: Human Knowledge-Guided GANs for Clinical Data Generation. , 2021, , .		3
1661	Using Clinical Drug Representations for Improving Mortality and Length of Stay Predictions. , 2021, , .		0
1662	Clinical Value of the Lactate/Albumin Ratio and Lactate/Albumin Ratio \tilde{A} — Age Score in the Assessment of Prognosis in Patients With Sepsis. Frontiers in Medicine, 2021, 8, 732410.	1.2	8

#	ARTICLE	IF	CITATIONS
1663	Examination of Electrolyte Replacements in the ICU Utilizing MIMIC-III Dataset Demonstrates Redundant Replacement Patterns. <i>Healthcare (Switzerland)</i> , 2021, 9, 1373.	1.0	1
1666	Serum Total Bilirubin Level Is Associated With Hospital Mortality Rate in Adult Critically Ill Patients: A Retrospective Study. <i>Frontiers in Medicine</i> , 2021, 8, 697027.	1.2	4
1667	Developing clinical prediction models when adhering to minimum sample size recommendations: The importance of quantifying bootstrap variability in tuning parameters and predictive performance. <i>Statistical Methods in Medical Research</i> , 2021, 30, 2545-2561.	0.7	10
1668	Ontology-Based Reasoning for Educational Assistance in Noncommunicable Chronic Diseases. <i>Computers</i> , 2021, 10, 128.	2.1	4
1669	Machine learning for early discrimination between transient and persistent acute kidney injury in critically ill patients with sepsis. <i>Scientific Reports</i> , 2021, 11, 20269.	1.6	23
1670	Value of early critical care transthoracic echocardiography for patients undergoing mechanical ventilation: a retrospective study. <i>BMJ Open</i> , 2021, 11, e048646.	0.8	3
1672	The Prognostic Value of Calcium in Post-Cardiovascular Surgery Patients in the Intensive Care Unit. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 733528.	1.1	2
1673	Novel Prognostic Predictor for Primary Pulmonary Hypertension: Focus on Blood Urea Nitrogen. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 724179.	1.1	7
1674	A Retrospective Cohort Study on the Association between Red Cell Distribution Width and All-Cause Mortality of Patients with Cholecystitis at ICU Admission. <i>Disease Markers</i> , 2021, 2021, 1-14.	0.6	1
1675	A Novel Nomogram for Predicting Survival in Patients with Severe Acute Pancreatitis: An Analysis Based on the Large MIMIC-III Clinical Database. <i>Emergency Medicine International</i> , 2021, 2021, 1-12.	0.3	2
1676	Long-term Mortality Predictors of ICU Fungemia. <i>Epidemiology and Infection</i> , 2021, 149, 1-18.	1.0	1
1677	Estimating redundancy in clinical text. <i>Journal of Biomedical Informatics</i> , 2021, 124, 103938.	2.5	7
1678	Sentiment Analysis for Necessary Preview of 30-Day Mortality in Sepsis Patients and the Control Strategies. <i>Journal of Healthcare Engineering</i> , 2021, 2021, 1-9.	1.1	7
1679	Varying association of laboratory values with reference ranges and outcomes in critically ill patients: an analysis of data from five databases in four countries across Asia, Europe and North America. <i>BMJ Health and Care Informatics</i> , 2021, 28, e100419.	1.4	1
1680	Association Between Serum Osmolality and Acute Kidney Injury in Critically Ill Patients: A Retrospective Cohort Study. <i>Frontiers in Medicine</i> , 2021, 8, 745803.	1.2	4
1681	Health status classification model for medical adherence system in retirement township. <i>F1000Research</i> , 0, 10, 1065.	0.8	0
1682	Real-time multi-class signal quality assessment of photoplethysmography using machine learning technique. <i>Measurement Science and Technology</i> , 2022, 33, 015701.	1.4	4
1683	Diagnostic Challenges in Sepsis. <i>Current Infectious Disease Reports</i> , 2021, 23, 22.	1.3	19

#	ARTICLE	IF	CITATIONS
1685	Digital signatures for early traumatic brain injury outcome prediction in the intensive care unit. Scientific Reports, 2021, 11, 19989.	1.6	3
1686	Admission Hyperglycemia Predicts Long-Term Mortality in Critically Ill Patients With Subarachnoid Hemorrhage: A Retrospective Analysis of the MIMIC-III Database. Frontiers in Neurology, 2021, 12, 678998.	1.1	7
1687	Stress ulcer prophylaxis in critically ill adult patients with sepsis at risk of gastrointestinal bleeding: a retrospective cohort study. Internal Medicine Journal, 2023, 53, 389-396.	0.5	3
1688	A novel artificial intelligence based intensive care unit monitoring system: using physiological waveforms to identify sepsis. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200252.	1.6	13
1690	The OpenDeID corpus for patient de-identification. Scientific Reports, 2021, 11, 19973.	1.6	7
1692	Sentiment Analysis Based on the Nursing Notes on In-Hospital 28-Day Mortality of Sepsis Patients Utilizing the MIMIC-III Database. Computational and Mathematical Methods in Medicine, 2021, 2021, 1-9.	0.7	6
1693	Die ethische Aufsicht über die Datenwissenschaft im Gesundheitswesen. , 2022, , 55-69.		1
1695	A Short Review of Ethical Challenges in Clinical Natural Language Processing. , 2017, , .		13
1696	CREST - Risk Prediction for Clostridium Difficile Infection Using Multimodal Data Mining. Lecture Notes in Computer Science, 2017, , 52-63.	1.0	8
1697	Toward Automated Early Sepsis Alerting: Identifying Infection Patients from Nursing Notes. , 2017, , .		4
1701	Interesting Recommendations Based on Hierarchical Visualizations of Medical Data. Lecture Notes in Computer Science, 2018, , 66-79.	1.0	1
1702	Embedded Word Representations for Rich Indexing: A Case Study for Medical Records. Lecture Notes in Computer Science, 2018, , 264-280.	1.0	2
1703	Guiding Supervised Learning by Bio-Ontologies in Medical Data Analysis. IFIP Advances in Information and Communication Technology, 2018, , 1-18.	0.5	0
1704	Mining Typical Drug Use Patterns Based on Patient Similarity from Electronic Medical Records. Communications in Computer and Information Science, 2018, , 71-86.	0.4	0
1705	Revisiting neural relation classification in clinical notes with external information. , 2018, , .		0
1706	Learning Treatment Regimens from Electronic Medical Records. Lecture Notes in Computer Science, 2018, , 411-422.	1.0	1
1711	Anesthesia research in the artificial intelligence era. Anesthesia and Pain Medicine, 2018, 13, 248-255.	0.5	1
1712	Prolonged dexmedetomidine infusion in critically ill adult patients: a retrospective analysis of a large clinical database Multiparameter Intelligent Monitoring in Intensive Care III. Annals of Translational Medicine, 2018, 6, 304-304.	0.7	5

#	ARTICLE	IF	CITATIONS
1716	Handling Missing Values in Multivariate Time Series Classification*. , 2018, , .		0
1718	An Optimal Policy for Patient Laboratory Tests in Intensive Care Units. , 2018, , .		8
1721	A perspective of Mike from a 50-year vantage point. , 2018, , 107-115.		0
1722	The design and implementation of INGRES. , 2018, , 561-605.		1
1723	Make it happen: the life of Michael Stonebraker. , 2018, , 39-56.		0
1724	Perspectives: the 2014 ACM turing award. , 2018, , 93-95.		0
1726	Detecting MRSA Infections by Fusing Structured and Unstructured Electronic Health Record Data. Communications in Computer and Information Science, 2019, , 399-419.	0.4	1
1727	Clinical Case Reports for NLP. , 2019, , .		0
1728	The Magic of Semantic Enrichment and NLP for Medical Coding. Lecture Notes in Computer Science, 2019, , 58-63.	1.0	0
1729	Deep Interpretable Mortality Model for Intensive Care Unit Risk Prediction. Lecture Notes in Computer Science, 2019, , 617-631.	1.0	6
1730	BioNLP-OST 2019 RDoC Tasks: Multi-grain Neural Relevance Ranking Using Topics and Attention Based Query-Document-Sentence Interactions. , 2019, , .		2
1731	Feature Importance for Biomedical Named Entity Recognition. Lecture Notes in Computer Science, 2019, , 406-417.	1.0	1
1732	Interactive Deep Metric Learning for Healthcare Cohort Discovery. Communications in Computer and Information Science, 2019, , 208-221.	0.4	1
1733	Towards Understanding ICU Treatments Using Patient Health Trajectories. Lecture Notes in Computer Science, 2019, , 67-81.	1.0	0
1734	Simple Rules for Predicting Congestion Risk in Queueing Systems: Application to ICUs. SSRN Electronic Journal, 0, , .	0.4	2
1735	Time-Guided High-Order Attention Model of Longitudinal Heterogeneous Healthcare Data. Lecture Notes in Computer Science, 2019, , 57-70.	1.0	2
1736	Seeking predictors for paroxysmal atrial fibrillation in stroke with an online clinical database. Åstanbul Kuzey Klinikleri, 2019, 7, 378-385.	0.1	2
1737	Saama Research at MEDIQA 2019: Pre-trained BioBERT with Attention Visualisation for Medical Natural Language Inference. , 2019, , .		4

#	ARTICLE	IF	CITATIONS
1738	Towards Automatic Generation of Shareable Synthetic Clinical Notes Using Neural Language Models. , 2019, , .		10
1739	Leveraging Hierarchical Category Knowledge for Data-Imbalanced Multi-Label Diagnostic Text Understanding. , 2019, , .		5
1740	Mining and Representing Unstructured Nicotine Use Data in a Structured Format for Secondary Use. , 2019, , .		1
1741	Set to Ordered Text: Generating Discharge Instructions from Medical Billing Codes. , 2019, , .		3
1742	Identification of Adverse Drug Reaction Mentions in Tweets â€œ SMM4H Shared Task 2019. , 2019, , .		1
1743	Extraction of Lactation Frames from Drug Labels and LactMed. , 2019, , .		0
1744	Personalised Medicine in Critical Care Using Bayesian Reinforcement Learning. Lecture Notes in Computer Science, 2019, , 648-657.	1.0	4
1745	Surf at MEDIQA 2019: Improving Performance of Natural Language Inference in the Clinical Domain by Adopting Pre-trained Language Model. , 2019, , .		2
1746	UW-BHI at MEDIQA 2019: An Analysis of Representation Methods for Medical Natural Language Inference. , 2019, , .		4
1747	Modelling ICU Patients to Improve Care Requirements and Outcome Prediction of Acute Respiratory Distress Syndrome: A Supervised Learning Approach. Lecture Notes in Computer Science, 2019, , 39-49.	1.0	0
1748	Prior Statin Use Is Associated with Decreased Mortality and Lower Levels of Liver and Brain Organ Failure Scores in Sepsis - A Matched Observational Study. SSRN Electronic Journal, 0, , .	0.4	0
1749	New Approach based on Machine Learning for Short-Term Mortality Prediction in Neonatal Intensive Care Unit. International Journal of Advanced Computer Science and Applications, 2019, 10, .	0.5	6
1750	ARS_NITK at MEDIQA 2019:Analysing Various Methods for Natural Language Inference, Recognising Question Entailment and Medical Question Answering System. , 2019, , .		8
1751	Detection of Motion Artifact in PPG Signal using Convolutional Neural Network. Journal of Digital Contents Society, 2019, 20, 355-361.	0.1	0
1752	Context-based bidirectional-LSTM model for sequence labeling in clinical reports. , 2019, , .		1
1753	Mortality prediction using medical notes. , 2019, , .		0
1757	Converging Semantic Knowledge and Deep Learning for Medical Coding. International Journal of Privacy and Health Information Management, 2019, 7, 33-52.	0.2	0
1758	Causality Assessment of Adverse Drug Reaction: Controlling Confounding Induced by Polypharmacy. Current Pharmaceutical Design, 2019, 25, 1134-1143.	0.9	4

#	ARTICLE	IF	CITATIONS
1761	Modeling Patient Flow among Hospital Wards Using Non-Diagnostic Data. , 2019, 3, 1-9.		0
1762	Toward Mitigating Adversarial Texts. International Journal of Computer Applications, 2019, 178, 1-7.	0.2	7
1767	Metabolic acidosis in critically ill patients with cirrhosis: Epidemiology and short-term mortality risk factors. Turkish Journal of Gastroenterology, 2019, 30, 883-891.	0.4	4
1771	Identifying Transitional High Cost Users from Unstructured Patient Profiles Written by Primary Care Physicians. , 2019, , .		3
1772	Improving Patient Cohort Identification using Neural Word Embedding with Structured Analysis. , 2019, , .		0
1774	A Hybrid Machine Learning Approach for Improving Mortality Risk Prediction on Imbalanced Data. , 2019, , .		1
1776	Building Electronic Health Record Databases for Research. , 2020, , 55-64.		0
1777	Diagnostic Prediction with Sequence-of-sets Representation Learning for Clinical Events. Lecture Notes in Computer Science, 2020, 12299, 348-358.	1.0	4
1779	Using Artificial Neural Network Condensation to Facilitate Adaptation of Machine Learning in Medical Settings by Reducing Computational Burden: Model Design and Evaluation Study. JMIR Formative Research, 2021, 5, e20767.	0.7	1
1787	AN EARLY PREDICTION AND DIAGNOSIS OF SEPSIS IN INTENSIVE CARE UNITS: AN UNSUPERVISED MACHINE LEARNING MODEL. MuÅŸla Journal of Science and Technology, 2020, 6, 32-40.	0.1	1
1788	Term Extraction from Medical Documents Using Word Embeddings. , 2020, , .		5
1795	Prognostic Value of Acute-On-Chronic Liver Failure (ACLF) Score in Critically Ill Patients with Cirrhosis and ACLF. Medical Science Monitor, 2020, 26, e926574.	0.5	5
1797	Text Processing for Detection of Fungal Ocular Involvement in Critical Care Patients: Cross-Sectional Study. Journal of Medical Internet Research, 2020, 22, e18855.	2.1	4
1801	Coronary Artery Disease Classification from Photoplethysmographic Signals. , 2020, , .		1
1802	Prediction of Hospital Re-admission Using Firefly Based Multi-layer Perceptron. Ingenierie Des Systemes D'Information, 2020, 25, 527-533.	0.5	0
1804	Elevated Lactate Dehydrogenase Levels Display a Poor Prognostic Factor for Non-Hodgkinâ€™s Lymphoma in Intensive Care Unit: An Analysis of the MIMIC-III Database Combined With External Validation. Frontiers in Oncology, 2021, 11, 753712.	1.3	6
1805	Developing a RadLex-Based Named Entity Recognition Tool for Mining Textual Radiology Reports: Development and Performance Evaluation Study. Journal of Medical Internet Research, 2021, 23, e25378.	2.1	3
1806	Machine Learning Prediction Models for Mortality in Intensive Care Unit Patients with Lactic Acidosis. Journal of Clinical Medicine, 2021, 10, 5021.	1.0	8

#	ARTICLE	IF	CITATIONS
1807	Does the magic of BERT apply to medical code assignment? A quantitative study. <i>Computers in Biology and Medicine</i> , 2021, 139, 104998.	3.9	32
1808	Admission Blood Glucose Is Associated With the 30-Days Mortality in Septic Patients: A Retrospective Cohort Study. <i>Frontiers in Medicine</i> , 2021, 8, 757061.	1.2	2
1809	Representation Learning via Variational Bayesian Networks. , 2021, , .		6
1810	Using Explainable Machine Learning to Improve Intensive Care Unit Alarm Systems. <i>Sensors</i> , 2021, 21, 7125.	2.1	15
1811	BERT based clinical knowledge extraction for biomedical knowledge graph construction and analysis. <i>Computer Methods and Programs in Biomedicine Update</i> , 2021, 1, 100042.	2.3	33
1812	ProAID: path-based reasoning for self-attentional disease prediction. <i>Knowledge and Information Systems</i> , 0, , 1.	2.1	1
1813	Preoperative Liver Function Test Abnormalities Were Associated With Short-Term and Long-Term Prognosis in Cardiac Surgery Patients Without Liver Disease. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 772430.	1.1	1
1814	The obesity paradox and hypoglycemia in critically ill patients. <i>Critical Care</i> , 2021, 25, 378.	2.5	15
1815	Incidence, prognosis, and risk factors of sepsis-induced cardiomyopathy. <i>World Journal of Clinical Cases</i> , 2021, 9, 9452-9468.	0.3	12
1817	I2VSM Approach: Self-monitoring of Patients Exploring Situational Awareness in IoT. <i>IFIP Advances in Information and Communication Technology</i> , 2020, , 53-70.	0.5	0
1818	eXDIL: A Tool for Classifying and eXplaining Hospital Discharge Letters. <i>Lecture Notes in Computer Science</i> , 2020, , 159-172.	1.0	0
1819	A Permissioned Blockchain Network for Security and Sharing of De-identified Tuberculosis Research Data in Brazil. <i>Methods of Information in Medicine</i> , 2020, 59, 205-218.	0.7	0
1820	Use of a Dual Artificial Intelligence Platform to Detect Unreported Lung Nodules. <i>Journal of Computer Assisted Tomography</i> , 2021, 45, 318-322.	0.5	13
1821	TAGNet: Temporal Aware Graph Convolution Network for Clinical Information Extraction. , 2020, , .		1
1822	A Short Survey of LSTM Models for De-identification of Medical Free Text. , 2020, , .		4
1823	Heterogeneous Similarity Graph Neural Network on Electronic Health Records. , 2020, , .		22
1824	Integrating Polystore RDBMS with Common In-Memory Data. , 2020, , .		1
1825	Clinical Phrase Mining with Language Models. , 2020, , .		1

#	ARTICLE	IF	CITATIONS
1826	Approximate Query Processing for Big Data in Heterogeneous Databases. , 2020, , .		6
1827	Prediction of Hospital Readmission Combining Rule-based and Machine Learning Model. , 2020, , .		1
1828	Pattern-based Fall Prediction using Hospital Clinical Notes. , 2020, , .		0
1829	Predicting Clinical Deterioration in Hospitals. , 2020, , .		0
1830	Using Transfer Learning for Detecting Drug Mentions in Tweets. Advances in Intelligent Systems and Computing, 2021, , 357-364.	0.5	0
1831	Big Data und Künstliche Intelligenz in der Medizin. , 2021, , 423-436.		0
1832	Pneumonia Outcome Prediction Using Structured And Unstructured Data From EHR. , 2020, , .		6
1833	SeqMed: Recommending Medication Combination with Sequence Generative Adversarial Nets. , 2020, , .		1
1834	A Methodology for Estimating Hospital Intensive Care Unit Length of Stay Using Novel Machine Learning Tools. , 2020, , .		3
1835	Predicting Prescriptions via DSCA-Dual Sequences with Cross Attention Network. , 2020, , .		0
1836	Investigation of BERT Model on Biomedical Relation Extraction Based on Revised Fine-tuning Mechanism. , 2020, , .		10
1837	Generating Training Data for Concept-Mining for an "Interface Terminology"™ Annotating Cardiology EHRs. , 2020, , .		1
1838	Sites and Causes of Infection in Patients with Sepsis-Associated Liver Dysfunction: A Population Study from the Medical Information Mart for Intensive Care III. Medical Science Monitor, 2021, 27, e928928.	0.5	1
1839	A2A: a platform for research in biomedical literature search. BMC Bioinformatics, 2020, 21, 572.	1.2	3
1841	DUGRA: Dual-Graph Representation Learning for Health Information Networks. , 2020, , .		2
1842	Assessment of Heart Rate Variability derived from Blood Pressure Pulse Recordings in Intensive Care Unit Patients. , 0, , .		1
1843	Multi-task deep representation learning method for electronic health records. , 2020, , .		0
1844	Additional Value of Augmenting Current Subscales in Braden Scale with Advanced Machine Learning Technique for Pressure Injury Risk Assessment. , 2020, , .		5

#	ARTICLE	IF	CITATIONS
1845	Unpacking Prevalence and Dichotomy in Quick Sequential Organ Failure Assessment and Systemic Inflammatory Response Syndrome Parameters: Observational Data-Driven Approach Backed by Sepsis Pathophysiology. JMIR Medical Informatics, 2020, 8, e18352.	1.3	1
1847	Dynamic survival prediction in intensive care units from heterogeneous time series without the need for variable selection or curation. Scientific Reports, 2020, 10, 22129.	1.6	16
1848	Opioid2FHIR: A system for extracting FHIR-compatible opioid prescriptions from clinical text. , 2020, , .		7
1849	Modeling Multivariate Time Series via Prototype Learning: a Multi-Level Attention-based Perspective. , 2020, , .		0
1850	Natural Language Processing-Based Quantification of the Mental State of Psychiatric Patients. Computational Psychiatry, 2020, 4, 76.	1.1	8
1851	Development and Application of an Intensive Care Medical Data Set for Deep Learning. , 2020, , .		1
1852	A deep learning backcasting approach to the electrolyte, metabolite, and acid-base parameters that predict risk in ICU patients. PLoS ONE, 2020, 15, e0242878.	1.1	2
1853	Integrating Structured and Unstructured Patient Data for ICD9 Disease Code Group Prediction. , 2021, , .		2
1854	Exploiting Text Data to Improve Critical Care Mortality Prediction. , 2020, , .		1
1855	ClinicNet: Clinical Practice Oriented Medical Representation Learning for Electronic Medical Records. , 2020, , .		0
1857	Multiple Balance Subsets Stacking for Imbalanced Healthcare Datasets. , 2020, , .		2
1860	Wearable Sensors and Deep Learning for the Management of Acute Pancreatitis in Precision Medicine. , 2021, , .		0
1861	Domain-Specific Language Model Pretraining for Biomedical Natural Language Processing. ACM Transactions on Computing for Healthcare, 2022, 3, 1-23.	3.3	358
1862	Explainable ICD multi-label classification of EHRs in Spanish with convolutional attention. International Journal of Medical Informatics, 2022, 157, 104615.	1.6	10
1863	Differentially Private Medical Texts Generation Using Generative Neural Networks. ACM Transactions on Computing for Healthcare, 2022, 3, 1-27.	3.3	2
1865	A Hybrid Deep Learning Approach for Spatial Trigger Extraction from Radiology Reports. , 2020, 2020, 50-55.		5
1867	A Deep Language Model for Symptom Extraction From Clinical Text and its Application to Extract COVID-19 Symptoms From Social Media. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 1737-1748.	3.9	16
1868	MEDIDRONE- A Predictive Analytics-Based Smart Healthcare System. Smart Innovation, Systems and Technologies, 2020, , 19-33.	0.5	3

#	ARTICLE	IF	CITATIONS
1869	Mortality prediction for ICU patients with individualized single classification method. IFAC-PapersOnLine, 2020, 53, 16131-16136.	0.5	0
1870	Interpretable Multivariate Time Series Classification Based on Prototype Learning. Lecture Notes in Computer Science, 2020, , 205-216.	1.0	1
1871	Towards Visual Dialog for Radiology. , 2020, , .		10
1872	Methods for Extracting Information from Messages from Primary Care Providers to Specialists. , 2020, 2020, 1-6.		0
1874	Effective Crowd-Annotation of Participants, Interventions, and Outcomes in the Text of Clinical Trial Reports. , 2020, , .		3
1875	Automatic Visual Recommendation for Data Science and Analytics. Advances in Intelligent Systems and Computing, 2020, , 125-132.	0.5	1
1876	A Method for Decompensation Prediction in Emergency and Harsh Situations. Lecture Notes in Computer Science, 2020, , 70-84.	1.0	0
1877	Exploiting Node Content for Multiview Graph Convolutional Network and Adversarial Regularization. , 2020, , .		0
1878	Key references. , 2020, , 481-502.		0
1880	Mortality Risk Score for Critically Ill Patients with Viral or Unspecified Pneumonia: Assisting Clinicians with COVID-19 ECMO Planning. Lecture Notes in Computer Science, 2020, , 336-347.	1.0	1
1881	Paying Per-Label Attention for Multi-label Extraction from Radiology Reports. Lecture Notes in Computer Science, 2020, , 277-289.	1.0	1
1883	Exploring Text Specific and Blackbox Fairness Algorithms in Multimodal Clinical NLP. , 2020, , .		4
1884	Multiple Sclerosis Severity Classification From Clinical Text. , 2020, , .		2
1885	An Ensemble Approach for Automatic Structuring of Radiology Reports. , 2020, , .		0
1887	Towards Assigning Diagnosis Codes Using Medication History. Lecture Notes in Computer Science, 2020, , 203-213.	1.0	2
1888	Cross-Lingual Transfer Learning for Medical Named Entity Recognition. Lecture Notes in Computer Science, 2020, , 403-418.	1.0	1
1889	Learning Invariant Feature Representation to Improve Generalization Across Chest X-Ray Datasets. Lecture Notes in Computer Science, 2020, , 644-653.	1.0	3
1890	Towards Automated Diagnosis with Attentive Multi-modal Learning Using Electronic Health Records and Chest X-Rays. Lecture Notes in Computer Science, 2020, , 106-114.	1.0	4

#	ARTICLE	IF	CITATIONS
1891	Practical Lessons from Generating Synthetic Healthcare Data with Bayesian Networks. Communications in Computer and Information Science, 2020, , 38-47.	0.4	4
1892	Neural Topic Models with Survival Supervision: Jointly Predicting Time-to-Event Outcomes and Learning How Clinical Features Relate. Lecture Notes in Computer Science, 2020, , 371-381.	1.0	0
1893	Representing EHRs with Temporal Tree and Sequential Pattern Mining for Similarity Computing. Lecture Notes in Computer Science, 2020, , 220-235.	1.0	5
1894	How You Ask Matters: The Effect of Paraphrastic Questions to BERT Performance on a Clinical SQuAD Dataset. , 2020, , .		4
1895	Layer-wise Guided Training for BERT: Learning Incrementally Refined Document Representations. , 2020, , .		1
1896	FedSmart: An Auto Updating Federated Learning Optimization Mechanism. Lecture Notes in Computer Science, 2020, , 716-724.	1.0	7
1897	A Survey on Precision Treatment for Humans Using Cognitive Machine Learning Techniques. Advances in Computational Intelligence and Robotics Book Series, 2020, , 79-106.	0.4	1
1898	Predicting Multiple ICD-10 Codes from Brazilian-Portuguese Clinical Notes. Lecture Notes in Computer Science, 2020, , 566-580.	1.0	6
1899	Multi-information Source HIN for Medical Concept Embedding. Lecture Notes in Computer Science, 2020, , 396-408.	1.0	14
1900	Medical Time-Series Data Generation Using Generative Adversarial Networks. Lecture Notes in Computer Science, 2020, , 382-391.	1.0	14
1901	A New Classification Technique Based on the Combination of Inner Evidence. Lecture Notes in Computer Science, 2020, , 174-186.	1.0	0
1902	PHICON: Improving Generalization of Clinical Text De-identification Models via Data Augmentation. , 2020, , .		1
1903	IDSOU at WNUT-2020 Task 2: Identification of Informative COVID-19 English Tweets. , 2020, , .		1
1904	GGPONC: A Corpus of German Medical Text with Rich Metadata Based on Clinical Practice Guidelines. , 2020, , .		9
1905	Classification of Syncope Cases in Norwegian Medical Records. , 2020, , .		0
1906	Hybrid Text Feature Modeling for Disease Group Prediction Using Unstructured Physician Notes. Lecture Notes in Computer Science, 2020, , 321-333.	1.0	2
1912	Assessment of Nursesâ€™ Knowledge and Practice for Patients Undergoing a Bronchoscopy [Suggested Nursing Care Guidelines]. Assiut Scientific Nursing Journal, 2020, 8, 83-93.	0.0	1
1914	Evaluating semantic textual similarity in clinical sentences using deep learning and sentence embeddings. , 2020, , .		7

#	ARTICLE	IF	CITATIONS
1915	Defining admissible rewards for high-confidence policy evaluation in batch reinforcement learning. , 2020, , .		0
1917	CaliForest. , 2020, 2020, 40-50.		5
1918	A BERT-Based Generation Model to Transform Medical Texts to SQL Queries for Electronic Medical Records: Model Development and Validation. JMIR Medical Informatics, 2021, 9, e32698.	1.3	5
1919	Low-Density Lipoprotein Cholesterol is Inversely Associated with All-Cause Mortality of Patients in the Coronary Care Unit. International Journal of General Medicine, 2021, Volume 14, 7659-7667.	0.8	1
1920	Analysis of Discrepancies Between Pulse Oximetry and Arterial Oxygen Saturation Measurements by Race and Ethnicity and Association With Organ Dysfunction and Mortality. JAMA Network Open, 2021, 4, e2131674.	2.8	111
1921	Estimated plasma volume status (ePVS) is a predictor for acute myocardial infarction in-hospital mortality: analysis based on MIMIC-III database. BMC Cardiovascular Disorders, 2021, 21, 530.	0.7	5
1923	Temporal attention augmented transformer Hawkes process. Neural Computing and Applications, 0, , 1.	3.2	2
1924	ECG Signal-Enabled Automatic Diagnosis Technology of Heart Failure. Journal of Healthcare Engineering, 2021, 2021, 1-8.	1.1	8
1925	Sequential Organ Failure Assessment (SOFA) and 90-day mortality in patients with kidney transplant status at first ICU admission: a cohort study of 428 patients. International Urology and Nephrology, 2021, , 1.	0.6	1
1926	Linking Free Text Documentation of Functioning and Disability to the ICF With Natural Language Processing. Frontiers in Rehabilitation Sciences, 2021, 2, .	0.5	8
1927	The Promise for Reducing Healthcare Cost with Predictive Model: An Analysis with Quantized Evaluation Metric on Readmission. Journal of Healthcare Engineering, 2021, 2021, 1-10.	1.1	9
1928	Machine Learning Consensus Clustering Approach for Patients with Lactic Acidosis in Intensive Care Units. Journal of Personalized Medicine, 2021, 11, 1132.	1.1	9
1929	Natural Language Processing and Machine Learning Methods to Characterize Unstructured Patient-Reported Outcomes: Validation Study. Journal of Medical Internet Research, 2021, 23, e26777.	2.1	16
1930	Capabilities of neural network technologies for extracting new medical knowledge and enhancing precise decision making for patients. Expert Review of Precision Medicine and Drug Development, 2022, 7, 70-78.	0.4	3
1931	Interpretable time-aware and co-occurrence-aware network for medical prediction. BMC Medical Informatics and Decision Making, 2021, 21, 305.	1.5	4
1932	Benchmarking feature selection methods with different prediction models on large-scale healthcare event data. BenchCouncil Transactions on Benchmarks, Standards and Evaluations, 2021, 1, 100004.	1.5	1
1933	A Review of Mortality Risk Prediction Models in Smartphone Applications. Journal of Medical Systems, 2021, 45, 107.	2.2	5
1934	Prognostic Implications of a Cumulative Renal Score Based on Both Serum Creatinine and Urine Output Criteria for Staging of Acute Kidney Injury: A Cohort Study. International Journal of General Medicine, 2021, Volume 14, 7833-7841.	0.8	0

#	ARTICLE	IF	CITATIONS
1935	Fine-grained spatial information extraction in radiology as two-turn question answering. International Journal of Medical Informatics, 2022, 158, 104628.	1.6	4
1936	Development and Validation of a Simple-to-Use Nomogram for Predicting In-Hospital Mortality in Patients With Acute Heart Failure Undergoing Continuous Renal Replacement Therapy. Frontiers in Medicine, 2021, 8, 678252.	1.2	6
1937	A graph-based data quality analysis in distributed telemedicine systems. Pollack Periodica, 2022, 17, 18-23.	0.2	1
1938	Evaluation of a policy enforcement solution in telemedicine with offline use cases. Pollack Periodica, 2022, 17, 12-17.	0.2	2
1939	LogPar: Logistic PARAFAC2 Factorization for Temporal Binary Data with Missing Values. , 2020, 2020, 1625-1635.		16
1940	Conformance Checking Methodology Across Discharge Summaries and Standard Treatment Guidelines. ACM Transactions on Computing for Healthcare, 2020, 1, 1-19.	3.3	6
1941	Detecting Concept Drift In Medical Triage. , 2020, , .		4
1943	Coding Electronic Health Records with Adversarial Reinforcement Path Generation. , 2020, , .		7
1944	Data Mining Methods for Optimizing Feature Extraction and Model Selection. , 2020, , .		1
1948	On the tracking of sensitive data and confidential executions. , 2020, , .		5
1949	Deep State-Space Generative Model For Correlated Time-to-Event Predictions. , 2020, , .		3
1950	Incorporating Domain Knowledge Into Language Models by Using Graph Convolutional Networks for Assessing Semantic Textual Similarity: Model Development and Performance Comparison. JMIR Medical Informatics, 2021, 9, e23101.	1.3	7
1952	Unfolding Healthcare: Novel Method for Predicting Mortality of Patients Within Early Hours of ICU. Smart Innovation, Systems and Technologies, 2021, , 161-168.	0.5	0
1953	Application of Text Mining to Nursing Texts. CIN - Computers Informatics Nursing, 2020, 38, 475-482.	0.3	1
1954	Using Item Response Theory for Explainable Machine Learning in Predicting Mortality in the Intensive Care Unit: Case-Based Approach. Journal of Medical Internet Research, 2020, 22, e20268.	2.1	6
1958	Collaborative Cloud Computing Framework for Health Data with Open Source Technologies. , 2020, , .		1
1959	The quest for raw signals. , 2020, , .		4
1960	Visualization of Deep Models on Nursing Notes and Physiological Data for Predicting Health Outcomes Through Temporal Sliding Windows. Studies in Computational Intelligence, 2021, , 115-129.	0.7	1

#	ARTICLE	IF	CITATIONS
1961	Faster Clinical Time Series Classification with Filter Based Feature Engineering Tree Boosting Methods. <i>Studies in Computational Intelligence</i> , 2021, , 247-260.	0.7	3
1962	Uncertainty Characterization for Predictive Analytics with Clinical Time Series Data. <i>Studies in Computational Intelligence</i> , 2021, , 69-78.	0.7	2
1963	Ensemble of Deep Learning Models for In-Hospital Mortality Prediction. <i>Lecture Notes in Networks and Systems</i> , 2021, , 391-398.	0.5	0
1964	Amplifying Domain Expertise in Clinical Data Pipelines. <i>JMIR Medical Informatics</i> , 2020, 8, e19612.	1.3	8
1967	Data filtering for corrupted MIMIC III dataset with deep learning. , 2020, , .		0
1968	Machine Learning Methods to Predict Acute Respiratory Failure and Acute Respiratory Distress Syndrome. <i>Frontiers in Big Data</i> , 2020, 3, 579774.	1.8	12
1969	Community Detection in a Patient-Centric Social Network. <i>Advances in Intelligent Systems and Computing</i> , 2021, , 171-182.	0.5	0
1972	Discovering Similarity Across Heterogeneous Features. <i>International Journal of Data Warehousing and Mining</i> , 2020, 16, 63-83.	0.4	2
1973	Estimating Individual Treatment Effects with Time-Varying Confounders. , 2020, , .		8
1974	Norepinephrine, Dopamine, and Vasopressin in Patients with Sepsis and Preexisting or Acute Heart Failure: A Retrospective Cohort Study. <i>Medical Science Monitor</i> , 2021, 27, e927716.	0.5	7
1975	A System for Continuous Estimating and Monitoring Cardiac Output via Arterial Waveform Analysis. <i>Journal of Biomedical Physics and Engineering</i> , 2017, 7, 181-190.	0.5	4
1976	Identifying Psychiatric Comorbidities for Obstructive Sleep Apnea in the Biomedical Literature and Electronic Health Record. <i>AMIA Summits on Translational Science Proceedings</i> , 2017, 2017, 502-511.	0.4	0
1977	Predicting intervention onset in the ICU with switching state space models. <i>AMIA Summits on Translational Science Proceedings</i> , 2017, 2017, 82-91.	0.4	13
1978	Enabling Machine Learning in Critical Care. , 2017, 17, 198-199.		4
1979	i2b2 implemented over SMART-on-FHIR. <i>AMIA Summits on Translational Science Proceedings</i> , 2018, 2017, 369-378.	0.4	4
1980	From Sour Grapes to Low-Hanging Fruit: A Case Study Demonstrating a Practical Strategy for Natural Language Processing Portability. <i>AMIA Summits on Translational Science Proceedings</i> , 2018, 2017, 104-112.	0.4	8
1981	Predicting Mortality in Diabetic ICU Patients Using Machine Learning and Severity Indices. <i>AMIA Summits on Translational Science Proceedings</i> , 2018, 2017, 310-319.	0.4	7
1982	Accurate and interpretable intensive care risk adjustment for fused clinical data with generalized additive models. <i>AMIA Summits on Translational Science Proceedings</i> , 2018, 2017, 166-175.	0.4	2

#	ARTICLE	IF	CITATIONS
1983	What's in a Note? Unpacking Predictive Value in Clinical Note Representations. AMIA Summits on Translational Science Proceedings, 2018, 2017, 26-34.	0.4	6
1984	Adapting Word Embeddings from Multiple Domains to Symptom Recognition from Psychiatric Notes. AMIA Summits on Translational Science Proceedings, 2018, 2017, 281-289.	0.4	7
1985	Big data in healthcare - the promises, challenges and opportunities from a research perspective: A case study with a model database. AMIA ... Annual Symposium proceedings, 2017, 2017, 384-392.	0.2	28
1986	An Automated System for Categorizing Transthoracic Echocardiography Indications According to the Echocardiography Appropriate Use Criteria. AMIA ... Annual Symposium proceedings, 2017, 2017, 670-678.	0.2	1
1987	Real-time mortality prediction in the Intensive Care Unit. AMIA ... Annual Symposium proceedings, 2017, 2017, 994-1003.	0.2	26
1988	Leveraging Clinical Time-Series Data for Prediction: A Cautionary Tale. AMIA ... Annual Symposium proceedings, 2017, 2017, 1571-1580.	0.2	7
1989	Using Demographic Factors and Comorbidities to Develop a Predictive Model for ICU Mortality in Patients with Acute Exacerbation COPD. AMIA ... Annual Symposium proceedings, 2018, 2018, 1319-1328.	0.2	4
1990	Using Neural Multi-task Learning to Extract Substance Abuse Information from Clinical Notes. AMIA ... Annual Symposium proceedings, 2018, 2018, 1395-1404.	0.2	2
1991	FABLE: A Semi-Supervised Prescription Information Extraction System. AMIA ... Annual Symposium proceedings, 2018, 2018, 1534-1543.	0.2	2
1992	Improving Sepsis Treatment Strategies by Combining Deep and Kernel-Based Reinforcement Learning. AMIA ... Annual Symposium proceedings, 2018, 2018, 887-896.	0.2	9
1993	Learning to Identify Rare Disease Patients from Electronic Health Records. AMIA ... Annual Symposium proceedings, 2018, 2018, 340-347.	0.2	6
1994	A Frame-Based NLP System for Cancer-Related Information Extraction. AMIA ... Annual Symposium proceedings, 2018, 2018, 1524-1533.	0.2	10
1995	Few-Shot and Zero-Shot Multi-Label Learning for Structured Label Spaces. , 2018, 2018, 3132-3142.		6
1996	An Optimal Policy for Patient Laboratory Tests in Intensive Care Units. Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing, 2019, 24, 320-331.	0.7	4
1997	Predictive Modeling of the Risk of Acute Kidney Injury in Critical Care: A Systematic Investigation of The Class Imbalance Problem. AMIA Summits on Translational Science Proceedings, 2019, 2019, 809-818.	0.4	2
1998	Automatic ICD Code Assignment based on ICD's Hierarchy Structure for Chinese Electronic Medical Records. AMIA Summits on Translational Science Proceedings, 2019, 2019, 417-424.	0.4	3
1999	Deep Patient Representation of Clinical Notes via Multi-Task Learning for Mortality Prediction. AMIA Summits on Translational Science Proceedings, 2019, 2019, 779-788.	0.4	2
2000	Building Computational Models to Predict One-Year Mortality in ICU Patients with Acute Myocardial Infarction and Post Myocardial Infarction Syndrome. AMIA Summits on Translational Science Proceedings, 2019, 2019, 407-416.	0.4	12

#	ARTICLE	IF	CITATIONS
2001	Context-Driven Concept Annotation in Radiology Reports: Anatomical Phrase Labeling. AMIA Summits on Translational Science Proceedings, 2019, 2019, 232-241.	0.4	1
2002	Improving length of stay prediction using a hidden Markov model. AMIA Summits on Translational Science Proceedings, 2019, 2019, 425-434.	0.4	5
2003	Assessing the Readability of Freely Available ICU Notes. AMIA Summits on Translational Science Proceedings, 2019, 2019, 696-703.	0.4	1
2004	A Hybrid Normalization Method for Medical Concepts in Clinical Narrative using Semantic Matching. AMIA Summits on Translational Science Proceedings, 2019, 2019, 732-740.	0.4	7
2005	Enhancing Prediction Models for One-Year Mortality in Patients with Acute Myocardial Infarction and Post Myocardial Infarction Syndrome. Studies in Health Technology and Informatics, 2019, 264, 273-277.	0.2	7
2006	Monitoring ICU Mortality Risk with A Long Short-Term Memory Recurrent Neural Network. Pacific Symposium on Biocomputing Pacific Symposium on Biocomputing, 2020, 25, 103-114.	0.7	9
2007	Relation Extraction from Clinical Narratives Using Pre-trained Language Models. AMIA ... Annual Symposium proceedings, 2019, 2019, 1236-1245.	0.2	7
2008	Hypersphere clustering to characterize healthcare providers using prescriptions and procedures from Medicare claims data. AMIA ... Annual Symposium proceedings, 2019, 2019, 408-417.	0.2	0
2009	Learning Hierarchical Representations of Electronic Health Records for Clinical Outcome Prediction. AMIA ... Annual Symposium proceedings, 2019, 2019, 597-606.	0.2	5
2010	Towards Reliable ARDS Clinical Decision Support: ARDS Patient Analytics with Free-text and Structured EMR Data. AMIA ... Annual Symposium proceedings, 2019, 2019, 228-237.	0.2	3
2011	Deep Learning from Incomplete Data: Detecting Imminent Risk of Hospital-acquired Pneumonia in ICU Patients. AMIA ... Annual Symposium proceedings, 2019, 2019, 467-476.	0.2	1
2013	Patient Representation Transfer Learning from Clinical Notes based on Hierarchical Attention Network. AMIA Summits on Translational Science Proceedings, 2020, 2020, 597-606.	0.4	5
2014	BERT-based Ranking for Biomedical Entity Normalization. AMIA Summits on Translational Science Proceedings, 2020, 2020, 269-277.	0.4	13
2015	Predicting Clinical Outcomes with Patient Stratification via Deep Mixture Neural Networks. AMIA Summits on Translational Science Proceedings, 2020, 2020, 367-376.	0.4	3
2016	Can Neo4j Replace PostgreSQL in Healthcare?. AMIA Summits on Translational Science Proceedings, 2020, 2020, 646-653.	0.4	2
2017	Interpretable Batch IRL to Extract Clinician Goals in ICU Hypotension Management. AMIA Summits on Translational Science Proceedings, 2020, 2020, 636-645.	0.4	3
2018	Identifying Distinct, Effective Treatments for Acute Hypotension with SODA-RL: Safely Optimized Diverse Accurate Reinforcement Learning. AMIA Summits on Translational Science Proceedings, 2020, 2020, 181-190.	0.4	3
2019	Phenotype Inference with Semi-Supervised Mixed Membership Models. Proceedings of Machine Learning Research, 2019, 106, 304-324.	0.3	1

#	ARTICLE	IF	CITATIONS
2021	Rad-SpatialNet: A Frame-based Resource for Fine-Grained Spatial Relations in Radiology Reports. , 2020, 2020, 2251-2260.		4
2022	Admission oxygen saturation and all-cause in-hospital mortality in acute myocardial infarction patients: data from the MIMIC-III database. Annals of Translational Medicine, 2020, 8, 1371.	0.7	6
2023	Minimax Pareto Fairness: A Multi Objective Perspective. Proceedings of Machine Learning Research, 2020, 119, 6755-6764.	0.3	2
2024	Prediction Models for AKI in ICU: A Comparative Study. International Journal of General Medicine, 2021, 14, 623-632.	0.8	3
2025	Comparative Study of Various Approaches for Ensemble-based De-identification of Electronic Health Record Narratives. AMIA ... Annual Symposium proceedings, 2020, 2020, 648-657.	0.2	0
2026	Extracting Angina Symptoms from Clinical Notes Using Pre-Trained Transformer Architectures. AMIA ... Annual Symposium proceedings, 2020, 2020, 412-421.	0.2	1
2027	A Preliminary Characterization of Canonicalized and Non-Canonicalized Section Headers Across Variable Clinical Note Types. AMIA ... Annual Symposium proceedings, 2020, 2020, 1268-1276.	0.2	0
2028	RadLex Normalization in Radiology Reports. AMIA ... Annual Symposium proceedings, 2020, 2020, 338-347.	0.2	0
2029	Predicting Volume Responsiveness Among Sepsis Patients Using Clinical Data and Continuous Physiological Waveforms. AMIA ... Annual Symposium proceedings, 2020, 2020, 619-628.	0.2	1
2030	Three Data-Driven Phenotypes of Multiple Organ Dysfunction Syndrome Preserved from Early Childhood to Middle Adulthood. AMIA ... Annual Symposium proceedings, 2020, 2020, 1345-1353.	0.2	8
2031	A Clinically Practical and Interpretable Deep Model for ICU Mortality Prediction with External Validation. AMIA ... Annual Symposium proceedings, 2020, 2020, 629-637.	0.2	1
2032	Selection of Clinical Text Features for Classifying Suicide Attempts. AMIA ... Annual Symposium proceedings, 2020, 2020, 273-282.	0.2	1
2033	Contextual Embeddings from Clinical Notes Improves Prediction of Sepsis. AMIA ... Annual Symposium proceedings, 2020, 2020, 197-202.	0.2	1
2034	Combining Deep Learning and Knowledge-driven Reasoning for Chest X-Ray Findings Detection. AMIA ... Annual Symposium proceedings, 2020, 2020, 593-601.	0.2	0
2035	Development of A Blockchain Framework for Virtual Clinical Trials. AMIA ... Annual Symposium proceedings, 2020, 2020, 1412-1420.	0.2	0
2036	Pressure Ulcer Injury in Unstructured Clinical Notes: Detection and Interpretation. AMIA ... Annual Symposium proceedings, 2020, 2020, 1160-1169.	0.2	1
2037	EffiCare: Better Prognostic Models via Resource-Efficient Health Embeddings. AMIA ... Annual Symposium proceedings, 2020, 2020, 1060-1069.	0.2	0
2038	AI Accelerated Human-in-the-loop Structuring of Radiology Reports. AMIA ... Annual Symposium proceedings, 2020, 2020, 1305-1314.	0.2	2

#	ARTICLE	IF	CITATIONS
2039	Inferring ADR causality by predicting the Naranjo Score from Clinical Notes. AMIA ... Annual Symposium proceedings, 2020, 2020, 1041-1049.	0.2	2
2040	Is Deep Reinforcement Learning Ready for Practical Applications in Healthcare? A Sensitivity Analysis of Duel-DDQN for Hemodynamic Management in Sepsis Patients. AMIA ... Annual Symposium proceedings, 2020, 2020, 773-782.	0.2	2
2041	Multi-task Learning via Adaptation to Similar Tasks for Mortality Prediction of Diverse Rare Diseases. AMIA ... Annual Symposium proceedings, 2020, 2020, 763-772.	0.2	0
2042	X-CAL: Explicit Calibration for Survival Analysis. Advances in Neural Information Processing Systems, 2020, 33, 18296-18307.	2.8	3
2044	Empirical Findings on the Role of Structured Data, Unstructured Data, and their Combination for Automatic Clinical Phenotyping. AMIA Summits on Translational Science Proceedings, 2021, 2021, 445-454.	0.4	0
2045	Integration of NLP2FHIR Representation with Deep Learning Models for EHR Phenotyping: A Pilot Study on Obesity Datasets. AMIA Summits on Translational Science Proceedings, 2021, 2021, 410-419.	0.4	0
2046	Leveraging Spatial Information in Radiology Reports for Ischemic Stroke Phenotyping. AMIA Summits on Translational Science Proceedings, 2021, 2021, 170-179.	0.4	0
2047	Extracting Adverse Drug Events from Clinical Notes. AMIA Summits on Translational Science Proceedings, 2021, 2021, 420-429.	0.4	0
2048	Pseudo-data generation for the extraction of Problems, Treatments and Tests. AMIA Summits on Translational Science Proceedings, 2021, 2021, 575-584.	0.4	0
2049	MAGEC: Using Non-Homogeneous Ensemble Consensus for Predicting Drivers in Unexpected Mechanical Ventilation. AMIA Summits on Translational Science Proceedings, 2021, 2021, 238-247.	0.4	0
2050	Trajectory Inspection: A Method for Iterative Clinician-Driven Design of Reinforcement Learning Studies. AMIA Summits on Translational Science Proceedings, 2021, 2021, 305-314.	0.4	0
2051	Deep EHR Spotlight: a Framework and Mechanism to Highlight Events in Electronic Health Records for Explainable Predictions. AMIA Summits on Translational Science Proceedings, 2021, 2021, 475-484.	0.4	0
2052	Quantification of BERT Diagnosis Generalizability Across Medical Specialties Using Semantic Dataset Distance. AMIA Summits on Translational Science Proceedings, 2021, 2021, 345-354.	0.4	0
2053	Event Outlier Detection in Continuous Time. Proceedings of Machine Learning Research, 2021, 139, 6793-6803.	0.3	0
2054	Recurrent Neural Networks (RNN)., 2021, , 111-135.		0
2055	Working as a Health AI Specialist. Computers in Health Care, 2021, , 247-268.	0.2	0
2056	Patient Representation Learning From Heterogeneous Data Sources and Knowledge Graphs Using Deep Collective Matrix Factorization: Evaluation Study. JMIR Medical Informatics, 2022, 10, e28842.	1.3	1
2057	Prediction of acute kidney injury in ICU with gradient boosting decision tree algorithms. Computers in Biology and Medicine, 2022, 140, 105097.	3.9	13

#	ARTICLE	IF	CITATIONS
2058	Machine learning predictive models for acute pancreatitis: A systematic review. <i>International Journal of Medical Informatics</i> , 2022, 157, 104641.	1.6	30
2059	Wearable photoplethysmography devices. , 2022, , 401-439.		16
2060	Comparative effectiveness of common treatments for new-onset atrial fibrillation within the ICU: Accounting for physiological status. <i>Journal of Critical Care</i> , 2022, 67, 149-156.	1.0	7
2061	Personalizing Medication Recommendation with a Graph-Based Approach. <i>ACM Transactions on Information Systems</i> , 2022, 40, 1-23.	3.8	17
2062	Reinforced Neighborhood Selection Guided Multi-Relational Graph Neural Networks. <i>ACM Transactions on Information Systems</i> , 2022, 40, 1-46.	3.8	59
2063	Sequential Data-Based Patient Similarity Framework for Patient Outcome Prediction: Algorithm Development. <i>Journal of Medical Internet Research</i> , 2022, 24, e30720.	2.1	6
2064	An HPC-Driven Data Science Platform to Speed-up Time Series Data Analysis of Patients with the Acute Respiratory Distress Syndrome. , 2021, , .		5
2065	Mechanical power normalized to predicted body weight is associated with mortality in critically ill patients: a cohort study. <i>BMC Anesthesiology</i> , 2021, 21, 278.	0.7	3
2066	The effect of dobutamine in sepsis: a propensity score matched analysis. <i>BMC Infectious Diseases</i> , 2021, 21, 1151.	1.3	4
2067	Predicting Prolonged Length of ICU Stay through Machine Learning. <i>Diagnostics</i> , 2021, 11, 2242.	1.3	13
2068	Early Fresh Frozen Plasma Transfusion: Is It Associated With Improved Outcomes of Patients With Sepsis?. <i>Frontiers in Medicine</i> , 2021, 8, 754859.	1.2	3
2069	Relationship Between Red Blood Cell Distribution Width and All-Cause Mortality in Disseminated Intravascular Coagulation Patients: A Retrospective Analysis. <i>International Journal of General Medicine</i> , 2021, Volume 14, 8301-8309.	0.8	1
2070	Association of Systemic Immune-Inflammation Index With Short-Term Mortality of Congestive Heart Failure: A Retrospective Cohort Study. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 753133.	1.1	37
2071	Association Between the Central Venous Pressure and All-Cause Mortality in Critically Ill Patients with Acute Kidney Injury. <i>International Journal of General Medicine</i> , 2021, Volume 14, 8019-8027.	0.8	2
2072	A Stochastic Multivariate Irregularly Sampled Time Series Imputation Method for Electronic Health Records. <i>BioMedInformatics</i> , 2021, 1, 166-181.	1.0	2
2073	Obesity Paradox of All-Cause Mortality in 4,133 Patients Treated with Coronary Revascularization. <i>Journal of Interventional Cardiology</i> , 2021, 2021, 1-10.	0.5	6
2074	Causal inference for time series analysis: problems, methods and evaluation. <i>Knowledge and Information Systems</i> , 2021, 63, 3041-3085.	2.1	39
2075	AutoScore-Survival: Developing interpretable machine learning-based time-to-event scores with right-censored survival data. <i>Journal of Biomedical Informatics</i> , 2022, 125, 103959.	2.5	8

#	ARTICLE	IF	CITATIONS
2076	Evaluation of Esophageal Pressures in Mechanically Ventilated Obese Patients. <i>Respiratory Care</i> , 2021, , respcare.08978.	0.8	1
2077	Smartphones and Video Cameras: Future Methods for Blood Pressure Measurement. <i>Frontiers in Digital Health</i> , 2021, 3, 770096.	1.5	11
2078	Urine Output Is Associated With In-hospital Mortality in Intensive Care Patients With Septic Shock: A Propensity Score Matching Analysis. <i>Frontiers in Medicine</i> , 2021, 8, 737654.	1.2	3
2079	Health Status Prediction with Local-Global Heterogeneous Behavior Graph. <i>ACM Transactions on Multimedia Computing, Communications and Applications</i> , 2021, 17, 1-21.	3.0	2
2080	Prognostic value of fibrinogen to albumin ratios among critically ill patients with acute kidney injury. <i>Internal and Emergency Medicine</i> , 2022, 17, 1023-1031.	1.0	7
2081	A Systematic Review of Federated Learning in the Healthcare Area: From the Perspective of Data Properties and Applications. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 11191.	1.3	60
2082	A latent batch-constrained deep reinforcement learning approach for precision dosing clinical decision support. <i>Knowledge-Based Systems</i> , 2022, 237, 107689.	4.0	7
2083	Towards a portable-noninvasive blood pressure monitoring system utilizing the photoplethysmogram signal. <i>Biomedical Optics Express</i> , 2021, 12, 7732.	1.5	7
2085	A novel nomogram for predicting 3-year mortality in critically ill patients after coronary artery bypass grafting. <i>BMC Surgery</i> , 2021, 21, 407.	0.6	2
2086	Impact of partial pressure of oxygen trajectories on the incidence of acute kidney injury in patients undergoing cardiopulmonary bypass. <i>Journal of Cardiology</i> , 2021, , .	0.8	4
2087	Information Extraction from German Clinical Care Documents in Context of Alzheimer's Disease. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 10717.	1.3	2
2088	Drug knowledge discovery via multi-task learning and pre-trained models. <i>BMC Medical Informatics and Decision Making</i> , 2021, 21, 251.	1.5	1
2089	Prediction of in-hospital mortality of <i>Clostridioides difficile</i> infection using critical care database: a big data-driven, machine learning approach. <i>BMJ Open Gastroenterology</i> , 2021, 8, e000761.	1.1	2
2090	Enhancing unsupervised medical entity linking with multi-instance learning. <i>BMC Medical Informatics and Decision Making</i> , 2021, 21, 317.	1.5	1
2091	Early prediction of hemodynamic interventions in the intensive care unit using machine learning. <i>Critical Care</i> , 2021, 25, 388.	2.5	11
2092	Natural Language Processing Enhances Prediction of Functional Outcome After Acute Ischemic Stroke. <i>Journal of the American Heart Association</i> , 2021, 10, e023486.	1.6	12
2093	An explainable CNN approach for medical codes prediction from clinical text. <i>BMC Medical Informatics and Decision Making</i> , 2021, 21, 256.	1.5	13
2095	Artificial intelligence for mechanical ventilation: systematic review of design, reporting standards, and bias. <i>British Journal of Anaesthesia</i> , 2022, 128, 343-351.	1.5	24

#	ARTICLE	IF	CITATIONS
2096	Relationship between Driving Pressure and Mortality in Ventilated Patients with Heart Failure: A Cohort Study. <i>Canadian Respiratory Journal</i> , 2021, 2021, 1-8.	0.8	3
2097	Pharmacological and non-pharmacological treatments and outcomes for new-onset atrial fibrillation in ICU patients: the CAFE scoping review and database analyses. <i>Health Technology Assessment</i> , 2021, 25, 1-174.	1.3	4
2098	Understanding the complexity of sepsis mortality prediction via rule discovery and analysis: a pilot study. <i>BMC Medical Informatics and Decision Making</i> , 2021, 21, 334.	1.5	4
2099	Automatic consistency assurance for literature-based gene ontology annotation. <i>BMC Bioinformatics</i> , 2021, 22, 565.	1.2	2
2100	EHR STAR: The State of the Art in Interactive EHR Visualization. <i>Computer Graphics Forum</i> , 2022, 41, 69-105.	1.8	8
2101	The Predictive Role of Systemic Inflammation Response Index (SIRI) in the Prognosis of Stroke Patients. <i>Clinical Interventions in Aging</i> , 2021, Volume 16, 1997-2007.	1.3	76
2102	A nomogram to predict in-hospital mortality for post-gastrointestinal resection surgery patients in intensive care units: A retrospective cohort study. <i>American Journal of Surgery</i> , 2021, , .	0.9	2
2103	Prediction of cardiac arrest in critically ill patients based on bedside vital signs monitoring. <i>Computer Methods and Programs in Biomedicine</i> , 2022, 214, 106568.	2.6	9
2104	A Comparison of Natural Language Processing Methods for the Classification of Lumbar Spine Imaging Findings Related to Lower Back Pain. <i>Academic Radiology</i> , 2022, 29, S188-S200.	1.3	5
2105	A weakly supervised model for the automated detection of adverse events using clinical notes. <i>Journal of Biomedical Informatics</i> , 2022, 126, 103969.	2.5	8
2106	An Interpretable Early Dynamic Sequential Predictor for Sepsis-Induced Coagulopathy Progression in the Real-World Using Machine Learning. <i>Frontiers in Medicine</i> , 2021, 8, 775047.	1.2	0
2107	Selective Prediction-Set Models with Coverage Rate Guarantees. <i>Biometrics</i> , 2023, 79, 811-825.	0.8	0
2109	Multi-granular Legal Topic Classification on Greek Legislation. , 2021, , .		6
2113	Clustering Demographics and Sequences of Diagnosis Codes. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2022, 26, 2351-2359.	3.9	1
2115	Risk markers by sex for in-hospital mortality in patients with acute coronary syndrome: A machine learning approach. <i>Informatics in Medicine Unlocked</i> , 2021, 27, 100791.	1.9	2
2117	Combining Model-Based and Model-Free Reinforcement Learning Policies for More Efficient Sepsis Treatment. <i>Lecture Notes in Computer Science</i> , 2021, , 105-117.	1.0	2
2119	A Large-Scale Hierarchical Structure Knowledge Enhanced Pre-training Framework for Automatic ICD Coding. <i>Communications in Computer and Information Science</i> , 2021, , 494-502.	0.4	3
2120	Transformer over Pre-trained Transformer for Neural Text Segmentation with Enhanced Topic Coherence. , 2021, , .		6

#	ARTICLE	IF	CITATIONS
2121	Differential Evaluation: a Qualitative Analysis of Natural Language Processing System Behavior Based Upon Data Resistance to Processing. , 2021, , .		1
2123	A Question-and-Answer System to Extract Data From Free-Text Oncological Pathology Reports (CancerBERT Network): Development Study. Journal of Medical Internet Research, 2022, 24, e27210.	2.1	10
2124	Association of hyperchloremia with all-cause mortality in patients admitted to the surgical intensive care unit: a retrospective cohort study. BMC Anesthesiology, 2022, 22, 14.	0.7	6
2125	Construction and Validation of a Risk Prediction Model for Acute Kidney Injury in Patients Suffering from Septic Shock. Disease Markers, 2022, 2022, 1-12.	0.6	19
2126	Neutrophil Albumin Ratio is Associated with All-Cause Mortality in Stroke Patients: A Retrospective Database Study. International Journal of General Medicine, 2022, Volume 15, 1-9.	0.8	9
2127	AMMU: A survey of transformer-based biomedical pretrained language models. Journal of Biomedical Informatics, 2022, 126, 103982.	2.5	84
2128	Safe medicine recommendation via star interactive enhanced-based transformer model. Computers in Biology and Medicine, 2022, 141, 105159.	3.9	3
2129	The red blood cell distribution width-albumin ratio: A promising predictor of mortality in heart failure patients â€” A cohort study. Clinica Chimica Acta, 2022, 527, 38-46.	0.5	27
2130	Developing and verifying a multivariate model to predict the survival probability after coronary artery bypass grafting in patients with coronary atherosclerosis based on the MIMIC-III database. Heart and Lung: Journal of Acute and Critical Care, 2022, 52, 61-70.	0.8	2
2131	Method of non-invasive parameters for predicting the probability of early in-hospital death of patients in intensive care unit. Biomedical Signal Processing and Control, 2022, 73, 103405.	3.5	4
2132	Differentially private synthetic medical data generation using convolutional GANs. Information Sciences, 2022, 586, 485-500.	4.0	31
2133	Detecting Organ Failure in Motor Vehicle Trauma Patients: A Machine Learning Approach. , 2019, , .		0
2134	Combining Reinforcement Learning with Supervised Learning for Sepsis Treatment. , 2020, , .		1
2135	Using MLP partial responses to explain in-hospital mortality in ICU. , 2020, , .		2
2136	Multi-label classification and evidential approach in diseases diagnoses using physiological signals. , 2020, , .		0
2137	Automated Mortality Prediction in Critically-ill Patients with Thrombosis using Machine Learning. , 2020, , .		4
2139	30-day Hospital Readmission Prediction using MIMIC Data. , 2020, , .		3
2140	Effectiveness of neural language models for word prediction of textual mammography reports. , 2020, , .		1

#	ARTICLE	IF	CITATIONS
2141	Accelerated SGD for Tensor Decomposition of Sparse Count Data. , 2020, , .		0
2142	Predicting Parkinson's Disease with Multimodal Irregularly Collected Longitudinal Smartphone Data. , 2020, , .		1
2143	Admission oxygen saturation and all-cause in-hospital mortality in acute myocardial infarction patients: data from the MIMIC-III database. Annals of Translational Medicine, 2020, 8, 1371-1371.	0.7	15
2145	Learning Individualized Treatment Rules with Estimated Translated Inverse Propensity Score. , 2020, , .		0
2146	Order-Preserving Metric Learning for Mining Multivariate Time Series. , 2020, , .		1
2147	BiteNet: Bidirectional Temporal Encoder Network to Predict Medical Outcomes. , 2020, , .		13
2148	Project based learning in Biomedical Data Science using the MIMIC III open dataset. , 0, , .		0
2149	Machine Learning and Deep Learning Approaches to Quantify Respiratory Distress Severity and Predict Critical Alarms. , 2020, , .		1
2150	Estimation of Missing Data in Intelligent Transportation System. , 2020, , .		1
2152	Adversarial Precision Sensing with Healthcare Applications. , 2020, , .		0
2153	IFGAN: Missing Value Imputation using Feature-specific Generative Adversarial Networks. , 2020, , .		4
2154	Development and Application of an Open Tool for Sharing and Analyzing Integrated Clinical and Environmental Exposures Data: Asthma Use Case. JMIR Formative Research, 2022, 6, e32357.	0.7	3
2156	Deep Learning based non-invasive diabetes predictor using Photoplethysmography signals. , 2021, , .		4
2157	Strategies to Address the Lack of Labeled Data for Supervised Machine Learning Training With Electronic Health Records: Case Study for the Extraction of Symptoms From Clinical Notes. JMIR Medical Informatics, 2022, 10, e32903.	1.3	10
2158	Synthetic Differential Privacy Data Generation for Revealing Bias Modelling Risks. , 2021, , .		1
2159	Hypertension Risk Assessment from Photoplethysmographic Recordings Using Deep Learning Classifiers. , 2021, , .		1
2160	Improved Discrimination Between Healthy and Hypertensive Individuals Combining Photoplethysmography and Electrocardiography. , 2021, , .		1
2161	Pattern Recognition in Vital Signs Using Spectrograms. , 2021, , .		1

#	ARTICLE	IF	CITATIONS
2162	Call for establishing benchmark science and engineering. BenchCouncil Transactions on Benchmarks, Standards and Evaluations, 2021, 1, 100012.	1.5	3
2163	Feature-Based Interpretable Reinforcement Learning based on State-Transition Models. , 2021, , .		2
2164	Assessment of Sepsis in the ICU by Linear and Complex Characterization of Cardiovascular Dynamics. , 2021, 2021, 862-865.		1
2165	Length of Stay in the Neonatal ICU is Predictable using Heart Rate: An Opportunity for Optimizing Managed Care. , 2021, 2021, 1601-1604.		0
2166	Continuous Blood Pressure Estimation From Non-Invasive Measurements Using Support Vector Regression. , 2021, 2021, 1487-1490.		1
2167	Layered Learning for Acute Hypotensive Episode Prediction in the ICU: An Alternative Approach. , 2021, , .		1
2168	Effects of Negation and Uncertainty Stratification on Text-Derived Patient Profile Similarity. Frontiers in Digital Health, 2021, 3, 781227.	1.5	0
2169	Prognostic value of hyperuricemia for patients with sepsis in the intensive care unit. Scientific Reports, 2022, 12, 1070.	1.6	3
2170	Role of Empiric Antifungal Therapy in Patients with Perforated Peptic Ulcers. Surgical Infections, 2022, 23, 174-177.	0.7	1
2171	External Validation of a Laboratory Prediction Algorithm for the Reduction of Unnecessary Labs in the Critical Care Setting. American Journal of Medicine, 2022, 135, 769-774.	0.6	2
2172	Artificial Intelligence for Detection of Cardiovascular-Related Diseases from Wearable Devices: A Systematic Review and Meta-Analysis. Yonsei Medical Journal, 2022, 63, S93.	0.9	23
2173	Early Detection of Pneumonia with the Help of Dementia in Geriatric Hip Fracture Patients. Orthopaedic Surgery, 2022, 14, 129-138.	0.7	3
2174	Peeking into a black box, the fairness and generalizability of a MIMIC-III benchmarking model. Scientific Data, 2022, 9, 24.	2.4	25
2175	Comparison of Neural Language Modeling Pipelines for Outcome Prediction From Unstructured Medical Text Notes. IEEE Access, 2022, 10, 16489-16498.	2.6	4
2176	Standardized Health data and Research Exchange (SHaRE): promoting a learning health system. JAMIA Open, 2022, 5, ooab120.	1.0	2
2177	An explainable machine learning framework for lung cancer hospital length of stay prediction. Scientific Reports, 2022, 12, 607.	1.6	49
2178	Risk Factors for Pulmonary Embolism in ICU Patients: A Retrospective Cohort Study from the MIMIC-III Database. Clinical and Applied Thrombosis/Hemostasis, 2022, 28, 107602962110739.	0.7	5
2179	Respiratory support status from EHR data for adult population: classification, heuristics, and usage in predictive modeling. Journal of the American Medical Informatics Association: JAMIA, 2022, 29, 813-821.	2.2	2

#	ARTICLE	IF	CITATIONS
2180	Unleashing the Power of Machine Learning to Predict Myocardial Recovery After Left Ventricular Assist Device: A Call for the Inclusion of Unstructured Data Sources in Heart Failure Registries. <i>Circulation: Heart Failure</i> , 2022, 15, CIRCHEARTFAILURE121009278.	1.6	0
2181	Predictive Model for ICU Readmission Based on Discharge Summaries Using Machine Learning and Natural Language Processing. <i>Informatics</i> , 2022, 9, 10.	2.4	2
2182	Unifying Diagnosis Identification and Prediction Method Embedding the Disease Ontology Structure From Electronic Medical Records. <i>Frontiers in Public Health</i> , 2021, 9, 793801.	1.3	2
2183	DataSifter II: Partially synthetic data sharing of sensitive information containing time-varying correlated observations. <i>Journal of Algorithms and Computational Technology</i> , 2022, 16, 174830262110653.	0.4	1
2184	Population Pharmacokinetics and Dosing Optimization of Gentamicin in Critically Ill Patients Undergoing Continuous Renal Replacement Therapy. <i>Drug Design, Development and Therapy</i> , 2022, Volume 16, 13-22.	2.0	4
2185	Unstructured clinical notes within the 24 hours since admission predict short, mid & long-term mortality in adult ICU patients. <i>PLoS ONE</i> , 2022, 17, e0262182.	1.1	15
2186	Predictive Value of Red Blood Cell Distribution Width for 1-Year All-Cause Mortality in Critically Ill Patients with Acute Myocardial Infarction. <i>International Journal of General Medicine</i> , 2022, Volume 15, 465-471.	0.8	6
2187	Prognostic value of the lactate-albumin difference for predicting in-hospital mortality in critically ill patients with sepsis. <i>Marmara Medical Journal</i> , 2022, 35, 61-66.	0.2	2
2188	Mechanical power of ventilation is associated with mortality in neurocritical patients: a cohort study. <i>Journal of Clinical Monitoring and Computing</i> , 2022, 36, 1621-1628.	0.7	8
2189	Deep survival algorithm based on nuclear norm. <i>Journal of Statistical Computation and Simulation</i> , 2022, 92, 1964-1976.	0.7	3
2190	AI-Driven Clinical Decision Support: Enhancing Disease Diagnosis Exploiting Patients Similarity. <i>IEEE Access</i> , 2022, 10, 6878-6888.	2.6	9
2191	Risk factor analysis and nomogram for predicting in-hospital mortality in ICU patients with sepsis and lung infection. <i>BMC Pulmonary Medicine</i> , 2022, 22, 17.	0.8	30
2192	Privacy preserving framework using Gaussian mutation based firebug optimization in cloud computing. <i>Journal of Supercomputing</i> , 2022, 78, 9414-9437.	2.4	6
2193	Atrial Fibrillation Is Not an Independent Determinant of Mortality Among Critically Ill Acute Ischemic Stroke Patients: A Propensity Score-Matched Analysis From the MIMIC-IV Database. <i>Frontiers in Neurology</i> , 2021, 12, 730244.	1.1	6
2194	Mortality, Disease Progression, and Disease Burden of Acute Kidney Injury in Alcohol Use Disorder Subpopulation. <i>American Journal of the Medical Sciences</i> , 2022, , .	0.4	1
2195	Federated Learning for Data Mining in Healthcare. <i>EAI/Springer Innovations in Communication and Computing</i> , 2022, , 243-258.	0.9	4
2196	Intra-aortic balloon pump in cardiogenic shock: A propensity score matching analysis. <i>Catheterization and Cardiovascular Interventions</i> , 2022, 99, 1456-1464.	0.7	3
2197	Comparison of different feature extraction methods for applicable automated ICD coding. <i>BMC Medical Informatics and Decision Making</i> , 2022, 22, 11.	1.5	5

#	ARTICLE	IF	CITATIONS
2198	Favorable Outcomes of Anticoagulation With Unfractionated Heparin in Sepsis-Induced Coagulopathy: A Retrospective Analysis of MIMIC-III Database. <i>Frontiers in Medicine</i> , 2021, 8, 773339.	1.2	3
2199	Building medical ontologies relying on communicative discourse trees. , 2022, , 365-414.		0
2200	Comparison of machine-learning algorithms for the prediction of Current Procedural Terminology (CPT) codes from pathology reports. <i>Journal of Pathology Informatics</i> , 2022, 13, 100165.	0.8	12
2201	Serum Anion Gap is Associated with Risk of All-Cause Mortality in Critically Ill Patients with Acute Myocardial Infarction. <i>International Journal of General Medicine</i> , 2022, Volume 15, 223-231.	0.8	11
2202	Differentially private synthetic mixed-type data generation for unsupervised learning. <i>Intelligent Decision Technologies</i> , 2022, 15, 779-807.	0.6	3
2203	Prediction Models for Sepsis-Associated Thrombocytopenia Risk in Intensive Care Units Based on a Machine Learning Algorithm. <i>Frontiers in Medicine</i> , 2022, 9, 837382.	1.2	6
2204	Word embeddings trained on published case reports are lightweight, effective for clinical tasks, and free of protected health information. <i>Journal of Biomedical Informatics</i> , 2022, 125, 103971.	2.5	5
2205	A contextual multi-task neural approach to medication and adverse events identification from clinical text. <i>Journal of Biomedical Informatics</i> , 2022, 125, 103960.	2.5	16
2206	Machine learning model for predicting acute kidney injury progression in critically ill patients. <i>BMC Medical Informatics and Decision Making</i> , 2022, 22, 17.	1.5	19
2207	CoCross: An ICT Platform Enabling Monitoring Recording and Fusion of Clinical Information Chest Sounds and Imaging of COVID-19 ICU Patients. <i>Healthcare (Switzerland)</i> , 2022, 10, 276.	1.0	5
2208	Research on public health crisis early warning system based on context awareness. <i>Technology and Health Care</i> , 2022, 30, 303-314.	0.5	4
2209	Computational signatures for post-cardiac arrest trajectory prediction: Importance of early physiological time series. <i>Anaesthesia, Critical Care & Pain Medicine</i> , 2022, 41, 101015.	0.6	8
2210	Incorporating uncertainty in learning to defer algorithms for safe computer-aided diagnosis. <i>Scientific Reports</i> , 2022, 12, 1762.	1.6	1
2212	Deep learning for temporal data representation in electronic health records: A systematic review of challenges and methodologies. <i>Journal of Biomedical Informatics</i> , 2022, 126, 103980.	2.5	40
2213	Optimal dynamic treatment regime estimation using information extraction from unstructured clinical text. <i>Biometrical Journal</i> , 2022, 64, 805-817.	0.6	2
2214	The Neutrophil-to-Albumin Ratio as a New Predictor of All-Cause Mortality in Patients with Heart Failure. <i>Journal of Inflammation Research</i> , 2022, Volume 15, 701-713.	1.6	11
2215	Disambiguating Clinical Abbreviations Using a One-Fits-All Classifier Based on Deep Learning Techniques. <i>Methods of Information in Medicine</i> , 2022, 61, e28-e34.	0.7	9
2216	MedGCN: Medication recommendation and lab test imputation via graph convolutional networks. <i>Journal of Biomedical Informatics</i> , 2022, 127, 104000.	2.5	23

#	ARTICLE	IF	CITATIONS
2217	Classifying social determinants of health from unstructured electronic health records using deep learning-based natural language processing. <i>Journal of Biomedical Informatics</i> , 2022, 127, 103984.	2.5	42
2218	Evaluating pointwise reliability of machine learning prediction. <i>Journal of Biomedical Informatics</i> , 2022, 127, 103996.	2.5	24
2219	New JBI policy emphasizes clinically-meaningful novel machine learning methods. <i>Journal of Biomedical Informatics</i> , 2022, 127, 104003.	2.5	2
2220	A framework for differentially-private knowledge graph embeddings. <i>Web Semantics</i> , 2022, 72, 100696.	2.2	9
2221	Developing machine learning models for prediction of mortality in the medical intensive care unit. <i>Computer Methods and Programs in Biomedicine</i> , 2022, 216, 106663.	2.6	13
2222	Automated ICD-9 Medical Code Assignment from Given Free Text Using Deep Learning Approach. <i>Lecture Notes in Networks and Systems</i> , 2022, , 317-327.	0.5	2
2223	Transportability and Implementation Challenges of Early Warning Scores for Septic Shock in the ICU: A Perspective on the TREWScore. <i>Frontiers in Medicine</i> , 2021, 8, 793815.	1.2	0
2224	The "Ecosystem as a Service (EaaS)" approach to advance clinical artificial intelligence (cAI). , 2022, 1, e0000011.		5
2225	Federated Learning for Healthcare: Systematic Review and Architecture Proposal. <i>ACM Transactions on Intelligent Systems and Technology</i> , 2022, 13, 1-23.	2.9	116
2226	Blood urea nitrogen to serum albumin ratio as a new prognostic indicator in critical patients with chronic heart failure. <i>ESC Heart Failure</i> , 2022, 9, 1360-1369.	1.4	22
2228	Cox-LASSO Analysis for Hospital Mortality in Patients With Sepsis Received Continuous Renal Replacement Therapy: A MIMIC-III Database Study. <i>Frontiers in Medicine</i> , 2021, 8, 778536.	1.2	1
2229	Quality assurance of integrative big data for medical research within a multihospital system. <i>Journal of the Formosan Medical Association</i> , 2022, 121, 1728-1738.	0.8	17
2230	Early warning model for death of sepsis via length insensitive temporal convolutional network. <i>Medical and Biological Engineering and Computing</i> , 2022, 60, 875-885.	1.6	2
2232	Evaluating semantic similarity methods for comparison of text-derived phenotype profiles. <i>BMC Medical Informatics and Decision Making</i> , 2022, 22, 33.	1.5	0
2233	Clinical language search algorithm from free-text: facilitating appropriate imaging. <i>BMC Medical Imaging</i> , 2022, 22, 18.	1.4	3
2234	A prediction model for 30-day deaths of cirrhotic patients in intensive care unit hospitalization. <i>Medicine (United States)</i> , 2022, 101, e28752.	0.4	1
2235	Robust multifocus deep neural network for progression prediction on patient trajectory data. <i>International Journal of Intelligent Computing and Cybernetics</i> , 2022, ahead-of-print, .	1.6	0
2237	Development and Internal Validation of a Nomogram to Predict Mortality During the ICU Stay of Thoracic Fracture Patients Without Neurological Compromise: An Analysis of the MIMIC-III Clinical Database. <i>Frontiers in Public Health</i> , 2021, 9, 818439.	1.3	4

#	ARTICLE	IF	CITATIONS
2238	A Nomogram Based on Comorbidities and Infection Location to Predict 30 Days Mortality of Immunocompromised Patients in ICU: A Retrospective Cohort Study. International Journal of General Medicine, 2021, Volume 14, 10281-10292.	0.8	2
2239	Reinforcement Learning in Healthcare: A Survey. ACM Computing Surveys, 2023, 55, 1-36.	16.1	125
2243	Zero-Shot Clinical Acronym Expansion via Latent Meaning Cells. Proceedings of Machine Learning Research, 2020, 136, 12-40.	0.3	1
2246	Optimized Signal Quality Assessment for Photoplethysmogram Signals Using Feature Selection. IEEE Transactions on Biomedical Engineering, 2022, 69, 2982-2993.	2.5	15
2247	Artificial Intelligence in Predicting Kidney Function and Acute Kidney Injury. , 2022, , 561-577.		0
2248	xPM: A Framework for Process Mining with Exogenous Data. Lecture Notes in Business Information Processing, 2022, , 85-97.	0.8	5
2249	Data-driven model for identifying related pharmaceutically-significant entities in clinical texts. AIP Conference Proceedings, 2022, , .	0.3	0
2250	A Drug Recommendation Model Based on Message Propagation and DDI Gating Mechanism. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 3478-3485.	3.9	10
2252	Artificial Intelligence for Medical Diagnosis. , 2022, , 181-201.		2
2253	Are professional guidelines and regulatory standards fit for purpose?. , 2022, , 143-168.		0
2254	Predicting Outcomes for Cancer Patients with Transformer-Based Multi-task Learning. Lecture Notes in Computer Science, 2022, , 381-392.	1.0	1
2256	Artificial Intelligence in Infectious Diseases. , 2022, , 1327-1340.		0
2258	Artificial Intelligence and Deep Learning in Ophthalmology. , 2022, , 1519-1552.		5
2259	Discovering Care Pathways for Multi-morbid Patients Using Event Graphs. Lecture Notes in Business Information Processing, 2022, , 352-364.	0.8	2
2260	Developing a pneumonia diagnosis ontology from multiple knowledge sources. Health Informatics Journal, 2022, 28, 146045822210838.	1.1	4
2261	External validation of a deep learning prediction model for in-hospital mortality among ICU patients. , 2022, , .		2
2262	Hap-pulse: A Wearable Vibrotactile Glove for Medical Pulse Wave Rendering. IEEE Transactions on Haptics, 2022, 15, 280-291.	1.8	2
2263	Testing the Generalization of Neural Language Models for COVID-19 Misinformation Detection. Lecture Notes in Computer Science, 2022, , 381-392.	1.0	11

#	ARTICLE	IF	CITATIONS
2264	Multiple imputation using the average code from autoencoders. <i>Computer Methods and Programs in Biomedicine Update</i> , 2022, 2, 100053.	2.3	0
2265	Transfer learning for non-image data in clinical research: A scoping review. , 2022, 1, e0000014.		18
2266	Predicting Clinical Events Based on Raw Text: From Bag-of-Words to Attention-Based Transformers. <i>Frontiers in Digital Health</i> , 2021, 3, 810260.	1.5	2
2267	Platelet Transfusion in Patients With Sepsis and Thrombocytopenia: A Propensity Score-Matched Analysis Using a Large ICU Database. <i>Frontiers in Medicine</i> , 2022, 9, 830177.	1.2	8
2268	Artificial Intelligence for Perioperative Medicine: Perioperative Intelligence. <i>Anesthesia and Analgesia</i> , 2023, 136, 637-645.	1.1	6
2269	Interaction-aware Drug Package Recommendation via Policy Gradient. <i>ACM Transactions on Information Systems</i> , 2023, 41, 1-32.	3.8	15
2270	Recent Advances in Representation Learning for Electronic Health Records: A Systematic Review. <i>Journal of Physics: Conference Series</i> , 2022, 2188, 012007.	0.3	3
2271	Prognostic nutrition index is associated with the all-cause mortality in sepsis patients: A retrospective cohort study. <i>Journal of Clinical Laboratory Analysis</i> , 2022, 36, e24297.	0.9	15
2273	Central venous pressure and acute kidney injury in critically ill patients with multiple comorbidities: a large retrospective cohort study. <i>BMC Nephrology</i> , 2022, 23, 83.	0.8	8
2274	Effect of Alzheimer Disease on Prognosis of Intensive Care Unit (ICU) Patients: A Propensity Score Matching Analysis. <i>Medical Science Monitor</i> , 2022, 28, e935397.	0.5	3
2275	Early Prediction of Sepsis Onset Using Neural Architecture Search Based on Genetic Algorithms. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 2349.	1.2	7
2276	The predictive value of the Oxford Acute Severity of Illness Score for clinical outcomes in patients with acute kidney injury. <i>Renal Failure</i> , 2022, 44, 320-328.	0.8	8
2277	Blood Urea Nitrogen-to-Albumin Ratio in Predicting Long-Term Mortality in Patients Following Coronary Artery Bypass Grafting: An Analysis of the MIMIC-III Database. <i>Frontiers in Surgery</i> , 2022, 9, 801708.	0.6	5
2278	Unifying cardiovascular modelling with deep reinforcement learning for uncertainty aware control of sepsis treatment. , 2022, 1, e0000012.		10
2279	MHeTRep: A multilingual semantically tagged health terms repository. <i>Natural Language Engineering</i> , 0, , 1-38.	2.1	0
2280	The effects of midazolam or propofol plus fentanyl on ICU mortality: a retrospective study based on the MIMIC-IV database. <i>Annals of Translational Medicine</i> , 2022, 10, 219-219.	0.7	4
2281	A Flexible, Wearable, and Wireless Biosensor Patch with Internet of Medical Things Applications. <i>Biosensors</i> , 2022, 12, 139.	2.3	32
2282	SmileGNN: Drug-Drug Interaction Prediction Based on the SMILES and Graph Neural Network. <i>Life</i> , 2022, 12, 319.	1.1	13

#	ARTICLE	IF	CITATIONS
2283	Postoperative Serum Creatinine Serves as a Prognostic Predictor of Cardiac Surgery Patients. <i>Frontiers in Cardiovascular Medicine</i> , 2022, 9, 740425.	1.1	3
2284	Association between serum ferritin and outcomes in critically ill patients. <i>Chinese Medical Journal</i> , 2022, Publish Ahead of Print, .	0.9	3
2285	Machine learning for the prediction of acute kidney injury in critical care patients with acute cerebrovascular disease. <i>Renal Failure</i> , 2022, 44, 43-53.	0.8	14
2286	The association between continuous renal replacement therapy as treatment for sepsis-associated acute kidney injury and trend of lactate trajectory as risk factor of 28-day mortality in intensive care units. <i>BMC Emergency Medicine</i> , 2022, 22, 32.	0.7	3
2287	Factors associated with in-hospital mortality in adult sepsis with <i>Escherichia coli</i> infection. <i>BMC Infectious Diseases</i> , 2022, 22, 197.	1.3	5
2288	Measuring the learning outcomes of datathons. <i>BMJ Innovations</i> , 2022, 8, 72-77.	1.0	1
2289	Intelligent Clinical Decision Support. <i>Sensors</i> , 2022, 22, 1408.	2.1	4
2290	Learning dynamic treatment strategies for coronary heart diseases by artificial intelligence: real-world data-driven study. <i>BMC Medical Informatics and Decision Making</i> , 2022, 22, 39.	1.5	7
2292	Use of Diagnosis Codes to Find Blood Transfusion Adverse Events in Electronic Health Records. <i>Journal of Patient Safety</i> , 2022, 18, e823-e866.	0.7	1
2293	An architectural design study of electronic healthcare record systems with associated context parameters on MIMIC III. <i>Health and Technology</i> , 2022, 12, 313-327.	2.1	2
2294	MSIPA: Multi-Scale Interval Pattern-Aware Network for ICU Transfer Prediction. <i>ACM Transactions on Knowledge Discovery From Data</i> , 2022, 16, 1-17.	2.5	3
2295	Antimicrobial and Microbiological Characteristics of Critically Ill Patients with Complicated Intra-Abdominal Infection: Observational Data from Beth Israel Deaconess Medical Center. <i>International Journal of General Medicine</i> , 2022, Volume 15, 2127-2136.	0.8	0
2296	Machine Learning Techniques in Blood Pressure Management During the Acute Phase of Ischemic Stroke. <i>Frontiers in Neurology</i> , 2021, 12, 743728.	1.1	4
2297	Association of Thiamine Use with Outcomes in Patients with Sepsis and Alcohol Use Disorder: An Analysis of the MIMIC-III Database. <i>Infectious Diseases and Therapy</i> , 2022, 11, 771-786.	1.8	4
2298	Making graphs compact by lossless contraction. <i>VLDB Journal</i> , 2023, 32, 49-73.	2.7	2
2299	A comparison of approaches to improve worst-case predictive model performance over patient subpopulations. <i>Scientific Reports</i> , 2022, 12, 3254.	1.6	8
2300	Predictive Value of Blood Urea Nitrogen to Albumin Ratio in Long-Term Mortality in Intensive Care Unit Patients with Acute Myocardial Infarction: A Propensity Score Matching Analysis. <i>International Journal of General Medicine</i> , 2022, Volume 15, 2247-2259.	0.8	6
2301	Acute kidney injury in traumatic brain injury intensive care unit patients. <i>World Journal of Clinical Cases</i> , 2022, 10, 2749-2761.	0.3	0

#	ARTICLE	IF	CITATIONS
2302	Antithrombotic Therapy Improves ICU Mortality of Septic Patients with Peripheral Vascular Disease. <i>International Journal of Clinical Practice</i> , 2022, 2022, 1-6.	0.8	0
2304	Artificial intelligence in perioperative medicine: a narrative review. <i>Korean Journal of Anesthesiology</i> , 2022, 75, 202-215.	0.9	6
2305	Severe acute kidney injury predicting model based on transcontinental databases: a single-centre prospective study. <i>BMJ Open</i> , 2022, 12, e054092.	0.8	8
2308	A Novel Method to Improve the Identification of Time of Intubation for Retrospective EHR Data Analysis During a Time of Resource Strain, the COVID-19 Pandemic. <i>American Journal of Medical Quality</i> , 2022, Publish Ahead of Print, .	0.2	2
2309	A Review of Anonymization for Healthcare Data. <i>Big Data</i> , 2022, , .	2.1	16
2311	Prognostic Role of MELD-Lactate in Cirrhotic Patients™ Short- and Long-Term Prognosis, Stratified by Causes of Cirrhosis. <i>Canadian Journal of Gastroenterology and Hepatology</i> , 2022, 2022, 1-8.	0.8	1
2312	Identification of data elements for blood gas analysis dataset: a base for developing registries and artificial intelligence-based systems. <i>BMC Health Services Research</i> , 2022, 22, 317.	0.9	2
2313	A Novel Nomogram for Predicting Morbidity Risk in Patients with Secondary Malignant Neoplasm of Bone and Bone Marrow: An Analysis Based on the Large MIMIC-III Clinical Database. <i>International Journal of General Medicine</i> , 2022, Volume 15, 3255-3264.	0.8	1
2315	Association of Fluid Management With Mortality of Sepsis Patients With Congestive Heart Failure: A Retrospective Cohort Study. <i>Frontiers in Medicine</i> , 2022, 9, 714384.	1.2	4
2316	The neutrophil percentage-to-albumin ratio is associated with all-cause mortality in critically ill patients with acute myocardial infarction. <i>BMC Cardiovascular Disorders</i> , 2022, 22, 115.	0.7	6
2317	Implementation of specialised attention mechanisms: ICD-10 classification of Gastrointestinal discharge summaries in English, Spanish and Swedish. <i>Journal of Biomedical Informatics</i> , 2022, 130, 104050.	2.5	6
2318	Endotypes and the Path to Precision in Moderate and Severe Traumatic Brain Injury. <i>Neurocritical Care</i> , 2022, 37, 259-266.	1.2	9
2319	Sepsis-3 criteria in AmsterdamUMCdb: open-source code implementation. <i>GigaByte</i> , 0, 2022, 1-7.	0.0	3
2320	The relationship between transthoracic echocardiography and mortality in adult patients with multiple organ dysfunction syndrome: analysis of the MIMIC-III database. <i>Annals of Translational Medicine</i> , 2022, 10, 310-310.	0.7	3
2321	A machine learning-based risk stratification tool for in-hospital mortality of intensive care unit patients with heart failure. <i>Journal of Translational Medicine</i> , 2022, 20, 136.	1.8	20
2322	A Machine Learning-Based Prediction Model for Acute Kidney Injury in Patients With Congestive Heart Failure. <i>Frontiers in Cardiovascular Medicine</i> , 2022, 9, 842873.	1.1	15
2323	The Monitoring with Advanced Sensors, Transmission and E-Resuscitation in Traumatic Brain Injury (MASTER-TBI) collaborative: bringing data science to the ICU bedside. <i>Critical Care and Resuscitation: Journal of the Australasian Academy of Critical Care Medicine</i> , 2022, 24, 39-42.	0.0	3
2324	Increased normalized lactate load is associated with higher mortality in both sepsis and non-sepsis patients: an analysis of the MIMIC-IV database. <i>BMC Anesthesiology</i> , 2022, 22, 79.	0.7	6

#	ARTICLE	IF	CITATIONS
2326	Diagnostic Features and Potential Applications of PPG Signal in Healthcare: A Systematic Review. <i>Healthcare (Switzerland)</i> , 2022, 10, 547.	1.0	32
2327	Critical Care Database Comprising Patients With Infection. <i>Frontiers in Public Health</i> , 2022, 10, 852410.	1.3	9
2328	Multi-channel fusion LSTM for medical event prediction using EHRs. <i>Journal of Biomedical Informatics</i> , 2022, 127, 104011.	2.5	13
2329	Enhancing sepsis management through machine learning techniques: A review. <i>Medicina Intensiva (English Edition)</i> , 2022, 46, 140-156.	0.1	0
2330	Acute kidney injury in traumatic brain injury intensive care unit patients. <i>World Journal of Clinical Cases</i> , 2022, 10, 2751-2763.	0.3	3
2331	Wearable Photoplethysmography for Cardiovascular Monitoring. <i>Proceedings of the IEEE</i> , 2022, 110, 355-381.	16.4	48
2332	Systematic Review and Comparison of Publicly Available ICU Data Sets—A Decision Guide for Clinicians and Data Scientists. <i>Critical Care Medicine</i> , 2022, 50, e581-e588.	0.4	31
2333	Norepinephrine use in cardiogenic shock patients is associated with increased 30-day mortality. <i>ESC Heart Failure</i> , 2022, 9, 1875-1883.	1.4	7
2334	Risk of acute kidney injury associated with anti-pseudomonal and anti-MRSA antibiotic strategies in critically ill patients. <i>PLoS ONE</i> , 2022, 17, e0264281.	1.1	6
2335	Intensive care unit capacity and mortality in older adults: a three nations retrospective observational cohort study. <i>Annals of Intensive Care</i> , 2022, 12, 20.	2.2	6
2336	Membership Inference Attacks on Machine Learning: A Survey. <i>ACM Computing Surveys</i> , 2022, 54, 1-37.	16.1	73
2337	Association of platelet count with all-cause mortality from acute respiratory distress syndrome: A cohort study. <i>Journal of Clinical Laboratory Analysis</i> , 2022, , e24378.	0.9	3
2338	A survey of automated International Classification of Diseases coding: development, challenges, and applications. <i>Intelligent Medicine</i> , 2022, 2, 161-173.	1.6	8
2339	Towards interactive event log forensics: Detecting and quantifying timestamp imperfections. <i>Information Systems</i> , 2022, 109, 102039.	2.4	3
2340	External Validation of a Risk Score for Daily Prediction of Atrial Fibrillation among Critically Ill Patients with Sepsis. <i>Annals of the American Thoracic Society</i> , 2022, 19, 697-701.	1.5	1
2342	Refining electronic medical records representation in manifold subspace. <i>BMC Bioinformatics</i> , 2022, 23, 115.	1.2	3
2343	Investigation of improving the pre-training and fine-tuning of BERT model for biomedical relation extraction. <i>BMC Bioinformatics</i> , 2022, 23, 120.	1.2	11
2344	A propensity score-matching analysis of angiotensin-converting enzyme inhibitor and angiotensin receptor blocker exposure on in-hospital mortality in patients with acute respiratory failure. <i>Pharmacotherapy</i> , 2022, 42, 387-396.	1.2	3

#	ARTICLE	IF	CITATIONS
2345	Based on billions of words on the internet, <sc>people</sc> = <sc>men</sc>. Science Advances, 2022, 8, eabm2463.	4.7	12
2346	TAHDNet: Time-aware hierarchical dependency network for medication recommendation. Journal of Biomedical Informatics, 2022, 129, 104069.	2.5	7
2347	Cohort design and natural language processing to reduce bias in electronic health records research. Npj Digital Medicine, 2022, 5, 47.	5.7	28
2348	Association of latent class analysis-derived subphenotypes of acute kidney injury with mortality in critically ill patients with cardiovascular disease: a retrospective cohort study. BMC Cardiovascular Disorders, 2022, 22, 154.	0.7	2
2349	PHDD: Corpus of Physical Health Data Disclosure on Twitter During COVID-19 Pandemic. SN Computer Science, 2022, 3, 212.	2.3	3
2350	A novel nomogram to predict mortality in patients with stroke: a survival analysis based on the MIMIC-III clinical database. BMC Medical Informatics and Decision Making, 2022, 22, 92.	1.5	12
2351	Red blood cell distribution width to albumin ratio is associated with all-cause mortality in cancer patients. Journal of Clinical Laboratory Analysis, 2022, 36, e24423.	0.9	23
2352	Association Between Obesity and Lower Short- and Long-Term Mortality in Coronary Care Unit Patients: A Cohort Study of the MIMIC-III Database. Frontiers in Endocrinology, 2022, 13, 855650.	1.5	3
2353	Cuffless Blood Pressure Measurement. Annual Review of Biomedical Engineering, 2022, 24, 203-230.	5.7	36
2354	Assessing hemodynamics from the photoplethysmogram to gain insights into vascular age: a review from VascAgeNet. American Journal of Physiology - Heart and Circulatory Physiology, 2022, 322, H493-H522.	1.5	35
2355	Sparse-attentive meta temporal point process for clinical decision support. Neurocomputing, 2022, 485, 114-123.	3.5	8
2356	Deep Learning-based detection of psychiatric attributes from German mental health records. International Journal of Medical Informatics, 2022, 161, 104724.	1.6	4
2357	Attention-based residual improved U-Net model for continuous blood pressure monitoring by using photoplethysmography signal. Biomedical Signal Processing and Control, 2022, 75, 103581.	3.5	12
2358	A machine learning approach for hypertension detection based on photoplethysmography and clinical data. Computers in Biology and Medicine, 2022, 145, 105479.	3.9	12
2359	A survey: From shallow to deep machine learning approaches for blood pressure estimation using biosensors. Expert Systems With Applications, 2022, 197, 116788.	4.4	31
2361	Predicting the Risk of Death for Sepsis Based on Within-Class Mixup and Lightgbm. , 2021, , .		0
2362	ConflictClassifier: An Interpretable Pipeline to Identify Contradictions in Clinical Notes. , 2021, , .		0
2363	GLoRIA: A Multimodal Global-Local Representation Learning Framework for Label-efficient Medical Image Recognition. , 2021, , .		58

#	ARTICLE	IF	CITATIONS
2364	Diagnosis Detection Support based on Time Series Similarity of Patients Physiological Parameters. , 2021, , .		0
2365	The presence of a circadian rhythm in pulse arrival time and its application for classifying blood pressure night-time dip. , 2021, 2021, 488-491.		1
2366	Application of Deep Neural Network Models for Blood Pressure Classification based on Photoplethysmographic Recordings. , 2021, , .		2
2367	Machine learning methods as a tool for diagnostic and prognostic research in cardiovascular disease. , 2021, , .		1
2368	An Interpretable Intensive Care Unit Mortality Risk Calculator. , 2021, 2021, 4152-4158.		1
2369	Intelligent patient monitoring for proactive alerting of key personnel in intensive care: A single-center study. , 2021, 2021, 2083-2086.		0
2370	Unsupervised learning approach for predicting sepsis onset in ICU patients. , 2021, 2021, 1916-1919.		3
2371	Rare Disease Identification from Clinical Notes with Ontologies and Weak Supervision. , 2021, 2021, 2294-2298.		6
2372	Motion Artifact Reduction In Photoplethysmography For Reliable Signal Selection. , 2021, 2021, 5625-5630.		0
2373	Class-Modeling of Septic Shock With Hyperdimensional Computing. , 2021, 2021, 1653-1659.		2
2374	Diagnosis prediction based on similarity of patients physiological parameters. , 2021, , .		0
2375	Leveraging Data Science for Global Surgery. Sustainable Development Goals Series, 2022, , 55-65.	0.2	0
2376	Novel Photoplethysmographic and Electrocardiographic Features for Enhanced Detection of Hypertensive Individuals. , 2021, , .		2
2377	A Delineator for Arterial Blood Pressure Waveform Analysis Based on a Deep Learning Technique. , 2021, 2021, 56-59.		1
2378	Recurrent Temporal Point Process Network for First and Repeated Clinical Events. , 2021, , .		0
2379	Towards Generating Real-World Time Series Data. , 2021, , .		12
2380	Performance of Sequential Organ Failure Assessment and Simplified Acute Physiology Score II for Post-Cardiac Surgery Patients in Intensive Care Unit. Frontiers in Cardiovascular Medicine, 2021, 8, 774935.	1.1	7
2381	Prevalence and Mortality of Hypochloremia Among Patients Suffering From Coronary Artery Disease and Congestive Heart Failure: An Analysis of Patients in CIN-I and MIMIC-III Databases. Frontiers in Medicine, 2021, 8, 769646.	1.2	3

#	ARTICLE	IF	CITATIONS
2382	Application of Machine Learning to Predict Acute Kidney Disease in Patients With Sepsis Associated Acute Kidney Injury. <i>Frontiers in Medicine</i> , 2021, 8, 792974.	1.2	16
2383	Access Control of EHR Records in a Heterogeneous Cloud Infrastructure. <i>Acta Cybernetica</i> , 2021, 25, 485-516.	0.5	2
2384	Gender-sensitive word embeddings for healthcare. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2022, 29, 415-423.	2.2	2
2385	Towards Interpretability and Personalization: A Predictive Framework for Clinical Time-series Analysis. , 2021, , .		2
2386	Detection of self-harm and suicidal ideation in emergency department triage notes. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2022, 29, 472-480.	2.2	17
2387	Predictive Modeling of Clinical Events with Mutual Enhancement Between Longitudinal Patient Records and Medical Knowledge Graph. , 2021, , .		5
2388	Improving Deep Forest by Exploiting High-order Interactions. , 2021, , .		5
2389	MAIN: Multimodal Attention-based Fusion Networks for Diagnosis Prediction. , 2021, , .		2
2390	Label Dependent Attention Model for Disease Risk Prediction Using Multimodal Electronic Health Records. , 2021, , .		6
2391	SCEHR: Supervised Contrastive Learning for Clinical Risk Prediction using Electronic Health Records. , 2021, , .		6
2392	Association between albumin infusion and outcomes in patients with acute kidney injury and septic shock. <i>Scientific Reports</i> , 2021, 11, 24083.	1.6	9
2393	CliniQG4QA: Generating Diverse Questions for Domain Adaptation of Clinical Question Answering. , 2021, , .		5
2394	Domain Adaptation for Trauma Mortality Prediction in EHRs with Feature Disparity. , 2021, , .		0
2395	Effectiveness of LODS, OASIS, and SAPS II to predict in-hospital mortality for intensive care patients with ST elevation myocardial infarction. <i>Scientific Reports</i> , 2021, 11, 23887.	1.6	7
2397	Textual Data Augmentation for Patient Outcomes Prediction. , 2021, , .		3
2398	FRED: Fall Risk Evaluation Database Based on Electronic Health Record Data. , 2021, , .		0
2399	The potential for artificial intelligence to predict clinical outcomes in patients who have acquired acute kidney injury during the perioperative period. <i>Perioperative Medicine (London, England)</i> , 2021, 10, 49.	0.6	1
2400	Communication Efficient Tensor Factorization for Decentralized Healthcare Networks. , 2021, , .		2

#	ARTICLE	IF	CITATIONS
2401	Sequential Diagnosis Prediction with Transformer and Ontological Representation. , 2021, , .		13
2402	MedTAG: a portable and customizable annotation tool for biomedical documents. BMC Medical Informatics and Decision Making, 2021, 21, 352.	1.5	8
2403	Association of FIB-4 index and clinical outcomes in critically ill patients with acute kidney injury: a cohort study. BMC Gastroenterology, 2021, 21, 483.	0.8	3
2404	Comparing the impact on the prognosis of acute myocardial infarction critical patients of using midazolam, propofol, and dexmedetomidine for sedation. BMC Cardiovascular Disorders, 2021, 21, 584.	0.7	4
2405	Prognostic Nutritional Index as a Predictor of 30-Day Mortality Among Patients Admitted to Intensive Care Unit with Acute Exacerbation of Chronic Obstructive Pulmonary Disease: A Single-Center Retrospective Cohort Study. Medical Science Monitor, 2022, 28, e934687.	0.5	6
2406	Predictive value of lymphocyte-to-monocyte ratio in critically ill patients with atrial fibrillation: A propensity score matching analysis. Journal of Clinical Laboratory Analysis, 2022, 36, e24217.	0.9	6
2407	Performance Profile of Transformer Fine-Tuning in Multi-GPU Cloud Environments. , 2021, , .		0
2408	Process mining applications in the healthcare domain: A comprehensive review. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2022, 12, .	4.6	13
2409	Deep-Learning-Based Survival Prediction of Patients in Coronary Care Units. Computational and Mathematical Methods in Medicine, 2021, 2021, 1-10.	0.7	5
2410	Label-dependent and event-guided interpretable disease risk prediction using EHRs. , 2021, , .		2
2411	Early Prediction of Mortality in Critical Care Setting in Sepsis Patients Using Structured Features and Unstructured Clinical Notes. , 2021, , .		3
2412	Self-Correcting Recurrent Neural Network for Acute Kidney Injury Prediction in Critical Care. Health Data Science, 2021, 2021, .	1.1	4
2413	JLAN: medical code prediction via joint learning attention networks and denoising mechanism. BMC Bioinformatics, 2021, 22, 590.	1.2	8
2414	Forecasting adverse surgical events using self-supervised transfer learning for physiological signals. Npj Digital Medicine, 2021, 4, 167.	5.7	25
2415	Disease Correlation Enhanced Attention Network for ICD Coding. , 2021, , .		2
2416	<sc>Triâ€transformer</sc> Hawkes process via dotâ€product attention operations with event type and temporal encoding. Computational Intelligence, 0, , .	2.1	0
2417	Development of a Lexicon for Pain. Frontiers in Digital Health, 2021, 3, 778305.	1.5	4
2418	Does Diabetes Mellitus Increase the Short- and Long-Term Mortality in Patients With Critical Acute Myocardial Infarction? Results From American MIMIC-III and Chinese CIN Cohorts. Frontiers in Endocrinology, 2021, 12, 797049.	1.5	3

#	ARTICLE	IF	CITATIONS
2419	The Striking Need for Age Diverse Pulse Oximeter Databases. <i>Frontiers in Medicine</i> , 2021, 8, 782422.	1.2	6
2420	Intelligent physiological signal infosecurity: Case study in photoplethysmography (PPG) signal. <i>IET Signal Processing</i> , 2022, 16, 267-280.	0.9	6
2421	A Hybrid Pooling Based Deep Learning Framework For Automated ICD Coding. , 2021, , .		3
2422	Hierarchy-based semantic embeddings for single-valued & multi-valued categorical variables. <i>Journal of Intelligent Information Systems</i> , 2022, 58, 613-640.	2.8	4
2425	A method for machine learning generation of realistic synthetic datasets for validating healthcare applications. <i>Health Informatics Journal</i> , 2022, 28, 146045822210770.	1.1	13
2426	Automatic Classification of Cancer Pathology Reports: A Systematic Review. <i>Journal of Pathology Informatics</i> , 2022, 13, 100003.	0.8	11
2427	Use of unstructured text in prognostic clinical prediction models: a systematic review. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2022, 29, 1292-1302.	2.2	19
2428	Benchmarking missing-values approaches for predictive models on health databases. <i>GigaScience</i> , 2022, 11, .	3.3	11
2429	ICU Cockpit: a platform for collecting multimodal waveform data, AI-based computational disease modeling and real-time decision support in the intensive care unit. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2022, 29, 1286-1291.	2.2	10
2430	A Federated Learning-Based Light-Weight Privacy-Preserving Framework for Smart Healthcare Systems. <i>Advances in Wireless Technologies and Telecommunication Book Series</i> , 2022, , 382-411.	0.3	0
2431	Neural Language Modeling of Unstructured Clinical Notes for Automated Patient Phenotyping. , 2022, , .		2
2432	Extract, transform, load framework for the conversion of health databases to OMOP. <i>PLoS ONE</i> , 2022, 17, e0266911.	1.1	14
2433	A novel Vascular Leak Index identifies sepsis patients with a higher risk for in-hospital death and fluid accumulation. <i>Critical Care</i> , 2022, 26, 103.	2.5	6
2434	Statistical Analysis and Machine Learning Prediction of Disease Outcomes for COVID-19 and Pneumonia Patients. <i>Frontiers in Cellular and Infection Microbiology</i> , 2022, 12, 838749.	1.8	9
2435	Interpretable Bias Mitigation for Textual Data: Reducing Genderization in Patient Notes While Maintaining Classification Performance. <i>ACM Transactions on Computing for Healthcare</i> , 2022, 3, 1-41.	3.3	6
2437	CD-Surv: a contrastive-based model for dynamic survival analysis. <i>Health Information Science and Systems</i> , 2022, 10, 5.	3.4	1
2438	Visual Analytics of Multivariate Intensive Care Time Series Data. <i>Computer Graphics Forum</i> , 2022, 41, 273-286.	1.8	5
2439	The "Coherent Data Set": Combining Patient Data and Imaging in a Comprehensive, Synthetic Health Record. <i>Electronics (Switzerland)</i> , 2022, 11, 1199.	1.8	4

#	ARTICLE	IF	CITATIONS
2440	Perceived individual fairness with a molecular representation for medicine recommendations. Knowledge-Based Systems, 2022, , 108755.	4.0	1
2441	Machine learning to predict vasopressin responsiveness in patients with septic shock. Pharmacotherapy, 2022, 42, 460-471.	1.2	6
2442	Prognostic data analysis of surgical treatments for intracerebral hemorrhage. Neurosurgical Review, 2022, , 1.	1.2	0
2444	Interpretable Machine Learning for Early Prediction of Prognosis in Sepsis: A Discovery and Validation Study. Infectious Diseases and Therapy, 2022, 11, 1117-1132.	1.8	37
2446	AutoScore-Imbalance: An interpretable machine learning tool for development of clinical scores with rare events data. Journal of Biomedical Informatics, 2022, 129, 104072.	2.5	8
2447	Privacy Preservation for Trajectory Publication Based on Differential Privacy. ACM Transactions on Intelligent Systems and Technology, 2022, 13, 1-21.	2.9	6
2459	Machine learning and health need better values. Npj Digital Medicine, 2022, 5, 51.	5.7	8
2460	Modeling Mechanical Ventilation In Silico—Potential and Pitfalls. Seminars in Respiratory and Critical Care Medicine, 2022, 43, 335-345.	0.8	2
2461	NeuroBlu, an electronic health record (EHR) trusted research environment (TRE) to support mental healthcare analytics with real-world data. BMJ Open, 2022, 12, e057227.	0.8	12
2462	Effect of midazolam on delirium in critically ill patients: a propensity score analysis. Journal of International Medical Research, 2022, 50, 030006052210886.	0.4	8
2463	Learning to predict in-hospital mortality risk in the intensive care unit with attention-based temporal convolution network. BMC Anesthesiology, 2022, 22, 119.	0.7	1
2467	MIMIC-SBDH: A Dataset for Social and Behavioral Determinants of Health.. Proceedings of Machine Learning Research, 2021, 149, 391-413.	0.3	0
2468	Hierarchical Information Criterion for Variable Abstraction.. Proceedings of Machine Learning Research, 2021, 149, 440-460.	0.3	0
2469	Clinical Note Section Detection Using a Hidden Markov Model of Unified Medical Language System Semantic Types.. AMIA ... Annual Symposium proceedings, 2021, 2021, 418-427.	0.2	0
2470	Reducing Physicians' Cognitive Load During Chart Review: A Problem-Oriented Summary of the Patient Electronic Record.. AMIA ... Annual Symposium proceedings, 2021, 2021, 763-772.	0.2	0
2471	Launching into clinical space with medspaCy: a new clinical text processing toolkit in Python.. AMIA ... Annual Symposium proceedings, 2021, 2021, 438-447.	0.2	1
2472	Towards more patient friendly clinical notes through language models and ontologies.. AMIA ... Annual Symposium proceedings, 2021, 2021, 881-890.	0.2	0
2473	Intrinsic Evaluation of Contextual and Non-contextual Word Embeddings using Radiology Reports.. AMIA ... Annual Symposium proceedings, 2021, 2021, 631-640.	0.2	0

#	ARTICLE	IF	CITATIONS
2474	Learning Predictive and Interpretable Timeseries Summaries from ICU Data.. AMIA ... Annual Symposium proceedings, 2021, 2021, 581-590.	0.2	0
2475	Integrating Multimodal Electronic Health Records for Diagnosis Prediction.. AMIA ... Annual Symposium proceedings, 2021, 2021, 726-735.	0.2	0
2476	A Study of Social and Behavioral Determinants of Health in Lung Cancer Patients Using Transformers-based Natural Language Processing Models.. AMIA ... Annual Symposium proceedings, 2021, 2021, 1225-1233.	0.2	1
2477	A Machine Learning Pipeline for Mortality Prediction in the ICU. International Journal of Digital Health, 2022, 2, 3.	0.4	1
2478	HieNet: Bidirectional Hierarchy Framework for Automated ICD Coding. Lecture Notes in Computer Science, 2022, , 523-539.	1.0	6
2479	Electrocardiogram Effective Analysis Based on the Random Forest Model with Preselected Parameters. Lecture Notes on Data Engineering and Communications Technologies, 2022, , 137-145.	0.5	0
2482	Similarity-Aware Collaborative Learning for Patient Outcome Prediction. Lecture Notes in Computer Science, 2022, , 407-422.	1.0	5
2485	Automatic Data Imputation in Time Series Processing Using Neural Networks for Industry and Medical Datasets. Communications in Computer and Information Science, 2022, , 3-16.	0.4	1
2486	Data Driven Estimation of Covid-19 Prognosis. , 2022, , .		0
2487	Guiding Efficient, Effective, and Patient-Oriented Electrolyte Replacement in Critical Care: An Artificial Intelligence Reinforcement Learning Approach. Journal of Personalized Medicine, 2022, 12, 661.	1.1	2
2488	Robust Reconstruction of Electrocardiogram Using Photoplethysmography: A Subject-Based Model. Frontiers in Physiology, 2022, 13, 859763.	1.3	3
2490	Red cell distribution in critically ill patients with chronic obstructive pulmonary disease. Pulmonology, 2024, 30, 34-42.	1.0	5
2491	Attention-based clinical note summarization. , 2022, , .		9
2494	Relationship Between Initial Urine Output and Mortality in Patients Hospitalized in Cardiovascular Intensive Care Units: More Is Not Better. Frontiers in Cardiovascular Medicine, 2022, 9, 853217.	1.1	0
2495	The Relationship Between Short-Term Mean Arterial Pressure Variability and Mortality in Critically Ill Patients. Frontiers in Cardiovascular Medicine, 2022, 9, 870711.	1.1	7
2496	Time Series Prediction Using Deep Learning Methods in Healthcare. ACM Transactions on Management Information Systems, 2023, 14, 1-29.	2.1	13
2497	Improving Cuff-Less Continuous Blood Pressure Estimation with Linear Regression Analysis. Electronics (Switzerland), 2022, 11, 1442.	1.8	11
2498	Improving medical term embeddings using UMLS Metathesaurus. BMC Medical Informatics and Decision Making, 2022, 22, 114.	1.5	4

#	ARTICLE	IF	CITATIONS
2499	Transfer Learning Improving Predictive Mortality Models for Patients in End-Stage Renal Disease. <i>Electronics (Switzerland)</i> , 2022, 11, 1447.	1.8	1
2500	Association Between Iron Metabolism and Acute Kidney Injury in Critically Ill Patients With Diabetes. <i>Frontiers in Endocrinology</i> , 2022, 13, 892811.	1.5	2
2501	Natural Language Processing of Radiology Reports to Detect Complications of Ischemic Stroke. <i>Neurocritical Care</i> , 2022, 37, 291-302.	1.2	5
2502	The burden associated with, and management of, difficult-to-treat depression in patients under specialist psychiatric care in the United Kingdom. <i>Journal of Psychopharmacology</i> , 2022, 36, 545-556.	2.0	2
2503	Elevated Blood Urea Nitrogen to Serum Albumin Ratio Is an Adverse Prognostic Predictor for Patients Undergoing Cardiac Surgery. <i>Frontiers in Cardiovascular Medicine</i> , 2022, 9, .	1.1	5
2504	Preliminary exploration of topic modelling representations for Electronic Health Records coding according to the International Classification of Diseases in Spanish. <i>Expert Systems With Applications</i> , 2022, 204, 117303.	4.4	3
2505	Bayesian Continual Imputation and Prediction For Irregularly Sampled Time Series Data. , 2022, , .		1
2506	External validation of a deep-learning model to predict severe acute kidney injury based on urine output changes in critically ill patients. <i>Journal of Nephrology</i> , 2022, 35, 2047-2056.	0.9	7
2507	NEAR: Named entity and attribute recognition of clinical concepts. <i>Journal of Biomedical Informatics</i> , 2022, 130, 104092.	2.5	6
2508	Machine learning for the prediction of acute kidney injury in patients with sepsis. <i>Journal of Translational Medicine</i> , 2022, 20, 215.	1.8	42
2509	The Relevance of Calibration in Machine Learning-Based Hypertension Risk Assessment Combining Photoplethysmography and Electrocardiography. <i>Biosensors</i> , 2022, 12, 289.	2.3	8
2510	Prediction of unplanned 30-day readmission for ICU patients with heart failure. <i>BMC Medical Informatics and Decision Making</i> , 2022, 22, 117.	1.5	12
2511	Machine Learning Methods for Predicting Long-Term Mortality in Patients After Cardiac Surgery. <i>Frontiers in Cardiovascular Medicine</i> , 2022, 9, 831390.	1.1	8
2512	Multi-View Learning Based on Non-Redundant Fusion for Icu Patient Mortality Prediction. , 2022, , .		1
2513	Mismatched Supervised Learning. , 2022, , .		0
2514	A Decision-Making System with Reject Option for Atrial Fibrillation Prediction Without ECG Signals. <i>Irbm</i> , 2022, , .	3.7	0
2515	Early prediction of moderate-to-severe condition of inhalation-induced acute respiratory distress syndrome via interpretable machine learning. <i>BMC Pulmonary Medicine</i> , 2022, 22, 193.	0.8	2
2516	Pharmacokinetic/pharmacodynamic-guided gentamicin dosing in critically ill patients: a revisit of the Hartford nomogram. <i>International Journal of Antimicrobial Agents</i> , 2022, 59, 106600.	1.1	2

#	ARTICLE	IF	CITATIONS
2517	Modern Learning from Big Data in Critical Care: Primum Non Nocere. <i>Neurocritical Care</i> , 2022, 37, 174-184.	1.2	5
2518	Dynamic Bayesian network for predicting physiological changes, organ dysfunctions and mortality risk in critical trauma patients. <i>BMC Medical Informatics and Decision Making</i> , 2022, 22, 119.	1.5	0
2519	Human-centered explainability for life sciences, healthcare, and medical informatics. <i>Patterns</i> , 2022, 3, 100493.	3.1	9
2520	Adapting Reinforcement Learning Treatment Policies Using Limited Data to Personalize Critical Care. <i>INFORMS Journal on Data Science</i> , 2022, 1, 27-49.	0.7	2
2521	Machine Learning for Prediction of Outcomes in Cardiogenic Shock. <i>Frontiers in Cardiovascular Medicine</i> , 2022, 9, .	1.1	0
2522	MatSciBERT: A materials domain language model for text mining and information extraction. <i>Npj Computational Materials</i> , 2022, 8, .	3.5	50
2523	Applying Differential Privacy to Tensor Completion. , 2022, , .		1
2525	Establishing best practices in photoplethysmography signal acquisition and processing. <i>Physiological Measurement</i> , 2022, 43, 050301.	1.2	4
2526	Classifying Characteristics of Opioid Use Disorder From Hospital Discharge Summaries Using Natural Language Processing. <i>Frontiers in Public Health</i> , 2022, 10, .	1.3	7
2527	Predicting the Prognosis of Patients in the Coronary Care Unit: A Novel Multi-Category Machine Learning Model Using XGBoost. <i>Frontiers in Cardiovascular Medicine</i> , 2022, 9, .	1.1	5
2528	Machine Learning Models for Early Prediction of Sepsis on Large Healthcare Datasets. <i>Electronics (Switzerland)</i> , 2022, 11, 1507.	1.8	7
2529	BI-RADS BERT and Using Section Segmentation to Understand Radiology Reports. <i>Journal of Imaging</i> , 2022, 8, 131.	1.7	8
2530	Novel methods of predicting ionized calcium status from routine data in critical care: External validation in MIMIC-III. <i>Clinica Chimica Acta</i> , 2022, 531, 375-381.	0.5	1
2531	A time-incorporated SOFA score-based machine learning model for predicting mortality in critically ill patients: A multicenter, real-world study. <i>International Journal of Medical Informatics</i> , 2022, 163, 104776.	1.6	8
2532	Non-invasive detection of coronary artery disease from photoplethysmograph using lumped parameter modelling. <i>Biomedical Signal Processing and Control</i> , 2022, 77, 103781.	3.5	7
2533	Applications of natural language processing in radiology: A systematic review. <i>International Journal of Medical Informatics</i> , 2022, 163, 104779.	1.6	10
2534	ISeeU2: Visually interpretable mortality prediction inside the ICU using deep learning and free-text medical notes. <i>Expert Systems With Applications</i> , 2022, 202, 117190.	4.4	7
2535	Linezolid induced thrombocytopenia in critically ill patients: Risk factors and development of a machine learning-based prediction model. <i>Journal of Infection and Chemotherapy</i> , 2022, 28, 1249-1254.	0.8	10

#	ARTICLE	IF	CITATIONS
2536	Predicting clinical outcomes using artificial intelligence and machine learning in neonatal intensive care units: a systematic review. <i>Journal of Perinatology</i> , 2022, 42, 1561-1575.	0.9	22
2537	Associated Factors And Short-Term Mortality Of Early versus Late Acute Kidney Injury Following on-pump Cardiac Surgery. <i>Interactive Cardiovascular and Thoracic Surgery</i> , 2022, , .	0.5	0
2538	Machine learning based algorithms to impute PaO2 from SpO2 values and development of an online calculator. <i>Scientific Reports</i> , 2022, 12, 8235.	1.6	4
2539	Medical concept integrated residual shortâ€long temporal convolutional networks for predicting clinical events. <i>Concurrency Computation Practice and Experience</i> , 2022, 34, .	1.4	1
2540	Artificial Intelligence and Machine Learning for Safe Medicines. <i>Drug Safety</i> , 2022, 45, 403-405.	1.4	7
2542	Exploring Physician Perspectives on Using Real-world Care Data for the Development of Artificial Intelligenceâ€Based Technologies in Health Care: Qualitative Study. <i>JMIR Formative Research</i> , 2022, 6, e35367.	0.7	4
2543	Scenario-based AI Benchmark Evaluation of Distributed Cloud/Edge Computing Systems. <i>IEEE Transactions on Computers</i> , 2022, , 1-1.	2.4	5
2544	A machine learning approach to identifying delirium from electronic health records. <i>JAMIA Open</i> , 2022, 5, .	1.0	2
2546	The Value of SII in Predicting the Mortality of Patients with Heart Failure. <i>Disease Markers</i> , 2022, 2022, 1-10.	0.6	9
2547	Association of RDW, NLR, and PLR with Atrial Fibrillation in Critical Care Patients: A Retrospective Study Based on Propensity Score Matching. <i>Disease Markers</i> , 2022, 2022, 1-13.	0.6	2
2548	A BenchCouncil view on benchmarking emerging and future computing. <i>BenchCouncil Transactions on Benchmarks, Standards and Evaluations</i> , 2022, 2, 100064.	1.5	3
2549	Attempting cardiac arrest prediction using artificial intelligence on vital signs from Electronic Health Records. <i>Smart Health</i> , 2022, 25, 100294.	2.0	7
2550	HUMAN BLOOD PRESSURE MEASUREMENT USING MACHINE LEARNING STRATEGY. <i>Telecommunications and Radio Engineering (English Translation of Elektrosvyaz and Radiotekhnika)</i> , 2022, , .	0.2	0
2551	A Detailed Schematic Study on AI in managing Hypertension: A Position Paper. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
2552	The Association Between Mean Corpuscular Hemoglobin Concentration and Prognosis in Patients with Acute Pulmonary Embolism: A Retrospective Cohort Study. <i>Clinical and Applied Thrombosis/Hemostasis</i> , 2022, 28, 107602962211038.	0.7	3
2553	EchoGen: Generating Conclusions from Echocardiogram Notes. , 2022, , .		4
2554	Identifying Patients With Heart Failure Who Are Susceptible to De Novo Acute Kidney Injury: Machine Learning Approach. <i>JMIR Medical Informatics</i> , 2022, 10, e37484.	1.3	1
2556	Perioperative Fluoroquinolone Treatment Deteriorates Prognosis Following Coronary Artery Bypass Grafting. <i>Journal of Cardiovascular Development and Disease</i> , 2022, 9, 173.	0.8	0

#	ARTICLE	IF	CITATIONS
2557	Ethnic disparities in publicly-available pulse oximetry databases. <i>Communications Medicine</i> , 2022, 2, .	1.9	12
2558	Deep Learning Analysis of Polish Electronic Health Records for Diagnosis Prediction in Patients with Cardiovascular Diseases. <i>Journal of Personalized Medicine</i> , 2022, 12, 869.	1.1	3
2559	A Review of Noninvasive Methodologies to Estimate the Blood Pressure Waveform. <i>Sensors</i> , 2022, 22, 3953.	2.1	16
2560	A distributed approach to the regulation of clinical AI. , 2022, 1, e0000040.		15
2561	A Machine Learning Based Discharge Prediction of Cardiovascular Diseases Patients in Intensive Care Units. <i>Healthcare (Switzerland)</i> , 2022, 10, 966.	1.0	5
2562	Development and validation of a machine-learning model for prediction of hypoxemia after extubation in intensive care units. <i>Annals of Translational Medicine</i> , 2022, 10, 577-577.	0.7	2
2563	A text mining framework for screening catalysts and critical process parameters from scientific literature - A study on Hydrogen production from alcohol. <i>Chemical Engineering Research and Design</i> , 2022, 184, 90-102.	2.7	11
2564	The Ratio of Red Blood Cell Distribution Width to Albumin Is Correlated With All-Cause Mortality of Patients After Percutaneous Coronary Intervention â€œ A Retrospective Cohort Study. <i>Frontiers in Cardiovascular Medicine</i> , 2022, 9, .	1.1	13
2565	Increase in chloride from baseline is independently associated with mortality in intracerebral hemorrhage patients admitted to intensive care unit: A retrospective study. <i>Journal of Intensive Medicine</i> , 2022, , .	0.8	0
2566	Process-aware digital twin cockpit synthesis from event logs. <i>Journal of Computer Languages</i> , 2022, 70, 101121.	1.5	16
2567	Clinical artificial intelligence quality improvement: towards continual monitoring and updating of AI algorithms in healthcare. <i>Npj Digital Medicine</i> , 2022, 5, .	5.7	77
2568	The Effect of Antiseizure Medication Administration on Mortality and Early Posttraumatic Seizures in Critically Ill Older Adults with Traumatic Brain Injury. <i>Neurocritical Care</i> , 2022, 37, 538-546.	1.2	6
2569	Infusion of Human Albumin on Acute Pancreatitis Therapy: New Tricks for Old Dog?. <i>Frontiers in Pharmacology</i> , 2022, 13, .	1.6	5
2570	Application of interpretable machine learning for early prediction of prognosis in acute kidney injury. <i>Computational and Structural Biotechnology Journal</i> , 2022, 20, 2861-2870.	1.9	17
2571	Clinically Interpretable Machine Learning Models for Early Prediction of Mortality in Older Patients with Multiple Organ Dysfunction Syndrome: An International Multicenter Retrospective Study. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2023, 78, 718-726.	1.7	4
2572	Abnormal Liver Function Tests Were Related to Short- and Long-Term Prognosis in Critically Ill Patients With Primary Pulmonary Hypertension. <i>Frontiers in Cardiovascular Medicine</i> , 2022, 9, .	1.1	0
2573	A LASSO-derived clinical score to predict severe acute kidney injury in the cardiac surgery recovery unit: a large retrospective cohort study using the MIMIC database. <i>BMJ Open</i> , 2022, 12, e060258.	0.8	1
2574	Association between fluid intake and extubation failure in intensive care unit patients with negative fluid balance: a retrospective observational study. <i>BMC Anesthesiology</i> , 2022, 22, .	0.7	2

#	ARTICLE	IF	CITATIONS
2575	Establishment of MELD-lactate clearance scoring system in predicting death risk of critically ill cirrhotic patients. <i>BMC Gastroenterology</i> , 2022, 22, .	0.8	1
2576	Clinical Informatics and Quality Improvement in the Pediatric Intensive Care Unit. <i>Pediatric Clinics of North America</i> , 2022, 69, 573-586.	0.9	2
2577	A data-driven platform for the coordination of independent Visual Analytics tools. <i>Computers and Graphics</i> , 2022, , .	1.4	2
2578	A computationally efficient CNN-LSTM neural network for estimation of blood pressure from features of electrocardiogram and photoplethysmogram waveforms. <i>Knowledge-Based Systems</i> , 2022, 250, 109151.	4.0	9
2579	The Secondary Use of Electronic Health Records for Data Mining: Data Characteristics and Challenges. <i>ACM Computing Surveys</i> , 2023, 55, 1-40.	16.1	20
2580	Impact of albumin infusion on prognosis of intensive care unit patients with congestive heart failure-hypoalbuminemia overlap: a retrospective cohort study. <i>Journal of Thoracic Disease</i> , 2022, 14, 2235-2246.	0.6	3
2581	A prediction model with measured sentiment scores for the risk of in-hospital mortality in acute pancreatitis: a retrospective cohort study. <i>Annals of Translational Medicine</i> , 2022, 10, 676-676.	0.7	3
2582	Improving the Accuracy of Progress Indication for Constructing Deep Learning Models. <i>IEEE Access</i> , 2022, 10, 63754-63781.	2.6	3
2583	Duration of Photoplethysmographic Signals for the Extraction of Pulse Rate Variability. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
2586	Impact of hourly serial SOFA score on signaling emerging sepsis. <i>Informatics in Medicine Unlocked</i> , 2022, 31, 100999.	1.9	0
2587	Delirium prediction in the ICU: designing a screening tool for preventive interventions. <i>JAMIA Open</i> , 2022, 5, .	1.0	3
2588	Approach for Electronic Medical Record Data Analysis. <i>Journal of Health Informatics and Statistics</i> , 2022, 47, 1-8.	0.1	0
2589	A Multi-View Framework to Detect Redundant Activity Labels for More Representative Event Logs in Process Mining. <i>Future Internet</i> , 2022, 14, 181.	2.4	3
2590	Using ECG Signals for Hypotensive Episode Prediction in trauma patients. <i>Computer Methods and Programs in Biomedicine</i> , 2022, , 106955.	2.6	0
2591	The Impact of Zinc Supplementation on Critically Ill Patients With Acute Kidney Injury: A Propensity Score Matching Analysis. <i>Frontiers in Nutrition</i> , 0, 9, .	1.6	2
2592	RadBERT: Adapting Transformer-based Language Models to Radiology. <i>Radiology: Artificial Intelligence</i> , 2022, 4, .	3.0	35
2593	SoK: Cryptanalysis of Encrypted Search with LEAKER “ A framework for LEakage Attack Evaluation on Real-world data. , 2022, , .		8
2594	Context-sensitive, personalized search at the point of care. , 2022, , .		1

#	ARTICLE	IF	CITATIONS
2595	Comparison between machine learning methods for mortality prediction for sepsis patients with different social determinants. BMC Medical Informatics and Decision Making, 2022, 22, .	1.5	6
2596	Self-Supervised Transformer for Sparse and Irregularly Sampled Multivariate Clinical Time-Series. ACM Transactions on Knowledge Discovery From Data, 2022, 16, 1-17.	2.5	18
2597	VitalDB, a high-fidelity multi-parameter vital signs database in surgical patients. Scientific Data, 2022, 9, .	2.4	28
2598	Automatic data extraction to support meta-analysis statistical analysis: a case study on breast cancer. BMC Medical Informatics and Decision Making, 2022, 22, .	1.5	7
2599	Healthsheet: Development of a Transparency Artifact for Health Datasets. , 2022, , .		13
2600	U-Shaped Association Between Blood Pressure and Mortality Risk in ICU Patients With Atrial Fibrillation: The MIMIC-III Database. Frontiers in Cardiovascular Medicine, 0, 9, .	1.1	3
2601	A novel machine learning model to predict respiratory failure and invasive mechanical ventilation in critically ill patients suffering from COVID-19. Scientific Reports, 2022, 12, .	1.6	21
2602	Associations Between Family Member Involvement and Outcomes of Patients Admitted to the Intensive Care Unit: Retrospective Cohort Study. JMIR Medical Informatics, 2022, 10, e33921.	1.3	1
2603	Evaluating a Recurrent Neural Network Model for Predicting Readmission to Cardiovascular ICUs Based on Clinical Time Series Data. , 0, , .		1
2604	Early prediction of ventilator-associated pneumonia in critical care patients: a machine learning model. BMC Pulmonary Medicine, 2022, 22, .	0.8	8
2605	Histamine H2 receptor antagonist exposure was related to decreased all-cause mortality in critical ill patients with heart failure: a cohort study. European Journal of Preventive Cardiology, 2022, 29, 1854-1865.	0.8	9
2606	What Is the Optimal Speed of correction of the Hyperosmolar Hyperglycemic State in Diabetic Ketoacidosis? An Observational Cohort Study of U.S. Intensive Care Patients. Endocrine Practice, 2022, 28, 875-883.	1.1	3
2607	The promise of artificial intelligence for kidney pathophysiology. Current Opinion in Nephrology and Hypertension, 2022, 31, 380-386.	1.0	1
2608	Causal inference for observational longitudinal studies using deep survival models. Journal of Biomedical Informatics, 2022, 131, 104119.	2.5	2
2609	Tell me something interesting: Clinical utility of machine learning prediction models in the ICU. Journal of Biomedical Informatics, 2022, 132, 104107.	2.5	2
2610	Improving the robustness and accuracy of biomedical language models through adversarial training. Journal of Biomedical Informatics, 2022, 132, 104114.	2.5	4
2611	$\langle \text{ml:math} \text{ xmlns:ml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e1466" altimg="si149.svg"} \rangle \langle \text{ml:mtext} \rangle \text{BP-Net} \langle \text{ml:mtext} \rangle \langle \text{ml:math} \rangle$: Cuff-less and non-invasive blood pressure estimation via a generic deep convolutional architecture. Biomedical Signal Processing and Control, 2022, 78, 103850.	3.5	3
2612	Evaluation and Analysis of Different Aggregation and Hyperparameter Selection Methods for Federated Brain Tumor Segmentation. Lecture Notes in Computer Science, 2022, , 405-419.	1.0	2

#	ARTICLE	IF	CITATIONS
2613	Learning to Adapt Dynamic Clinical Event Sequences with Residual Mixture of Experts. Lecture Notes in Computer Science, 2022, , 155-166.	1.0	1
2614	Personalization in Federated Learning. , 2022, , 71-98.		2
2616	A Novel Machine Learning-Assisted Clinical Diagnosis Support Model for Early Identification of Pancreatic Injury in Blunt Abdominal Trauma Patients at the Bedside: A Cross-National Study. SSRN Electronic Journal, 0, , .	0.4	0
2617	Measurement of Vital Signs Using Lifelight Remote Photoplethysmography: Results of the VISION-D and VISION-V Observational Studies. JMIR Formative Research, 2022, 6, e36340.	0.7	4
2618	A 3-Window Framework for the Discovery and Interpretation of Predictive Temporal Functional Dependencies. Lecture Notes in Computer Science, 2022, , 299-309.	1.0	1
2621	RuMedBench: A Russian Medical Language Understanding Benchmark. Lecture Notes in Computer Science, 2022, , 383-392.	1.0	1
2622	Exploiting Missing Value Patterns for a Backdoor Attack on Machine Learning Models of Electronic Health Records: Development and Validation Study. JMIR Medical Informatics, 2022, 10, e38440.	1.3	1
2623	State-of-the-Art Deep Learning Methods on Electrocardiogram Data: Systematic Review. JMIR Medical Informatics, 2022, 10, e38454.	1.3	14
2624	Lessons learned on using High-Performance Computing and Data Science Methods towards understanding the Acute Respiratory Distress Syndrome (ARDS). , 2022, , .		3
2625	A Federated Approach for Learning from Electronic Health Records. , 2022, , .		2
2626	Risk assessment of ICU patients through deep learning technique: A big data approach. Journal of Global Health, 0, 12, .	1.2	2
2627	Adaptive spectral affinity propagation clustering. Journal of Systems Engineering and Electronics, 2022, 33, 647-664.	1.1	0
2628	Knowledge Distillation via Constrained Variational Inference. Proceedings of the AAAI Conference on Artificial Intelligence, 2022, 36, 8132-8140.	3.6	1
2629	Feature Importance Explanations for Temporal Black-Box Models. Proceedings of the AAAI Conference on Artificial Intelligence, 2022, 36, 8351-8360.	3.6	5
2630	Diabetes Detection and Management through Photoplethysmographic and Electrocardiographic Signals Analysis: A Systematic Review. Sensors, 2022, 22, 4890.	2.1	10
2631	Construction of heterogeneous medical knowledge graph from electronic health records. Journal of Discrete Mathematical Sciences and Cryptography, 2022, 25, 921-930.	0.5	3
2632	Predicting the Mortality of ICU Patients by Topic Model with Machine-Learning Techniques. Healthcare (Switzerland), 2022, 10, 1087.	1.0	5
2633	Red cell distribution width is associated with short-term mortality in critically ill patients with heart failure. ESC Heart Failure, 2022, 9, 3210-3220.	1.4	6

#	ARTICLE	IF	CITATIONS
2634	Development and validation of a deep learning model to predict the survival of patients in ICU. Journal of the American Medical Informatics Association: JAMIA, 2022, 29, 1567-1576.	2.2	7
2635	Comparing the variability of ingredient, strength, and dose form information from electronic prescriptions with RxNorm drug product descriptions. Journal of the American Medical Informatics Association: JAMIA, 2022, 29, 1471-1479.	2.2	5
2636	Machine Learning-Based Systems for the Anticipation of Adverse Events After Pediatric Cardiac Surgery. Frontiers in Pediatrics, 0, 10, .	0.9	7
2637	Blood urea nitrogen to creatinine ratio is associated with in-hospital mortality among critically ill patients with cardiogenic shock. BMC Cardiovascular Disorders, 2022, 22, .	0.7	1
2638	Outcome Prediction in Critically-Ill Patients with Venous Thromboembolism and/or Cancer Using Machine Learning Algorithms: External Validation and Comparison with Scoring Systems. International Journal of Molecular Sciences, 2022, 23, 7132.	1.8	9
2639	Early Prediction of Sepsis for ICU Patients using Gradient Boosted Tree. , 2022, , .		3
2640	Effects of transthoracic echocardiography on the prognosis of patients with acute respiratory distress syndrome: a propensity score matched analysis of the MIMIC-III database. BMC Pulmonary Medicine, 2022, 22, .	0.8	1
2641	A Survey on Deep Learning Techniques for Joint Named Entities and Relation Extraction. , 2022, , .		4
2642	The prognostic value of admission lymphocyte-to-monocyte ratio in critically ill patients with acute myocardial infarction. BMC Cardiovascular Disorders, 2022, 22, .	0.7	2
2643	Exploring deep learning methods for recognizing rare diseases and their clinical manifestations from texts. BMC Bioinformatics, 2022, 23, .	1.2	5
2644	The association between blood albumin level and cardiovascular complications and mortality risk in ICU patients with CKD. BMC Cardiovascular Disorders, 2022, 22, .	0.7	1
2645	Development and validation of a clinical risk model to predict the hospital mortality in ventilated patients with acute respiratory distress syndrome: a population-based study. BMC Pulmonary Medicine, 2022, 22, .	0.8	3
2646	Association Between High Serum Anion Gap and All-Cause Mortality in Non-Traumatic Subarachnoid Hemorrhage: A Retrospective Analysis of the MIMIC-IV Database. Frontiers in Neurology, 0, 13, .	1.1	3
2647	Association between Wait Time for Transthoracic Echocardiography and 28-Day Mortality in Patients with Septic Shock: A Cohort Study. Journal of Clinical Medicine, 2022, 11, 4131.	1.0	3
2648	Prognostic Value of Systemic Immune-Inflammation Index among Critically Ill Patients with Acute Kidney Injury: A Retrospective Cohort Study. Journal of Clinical Medicine, 2022, 11, 3978.	1.0	8
2649	ChromosomeNet: A massive dataset enabling benchmarking and building baselines of clinical chromosome classification. Computational Biology and Chemistry, 2022, 100, 107731.	1.1	4
2650	Influence of the Driving Pressure on Mortality in ARDS Patients with or without Abdominal Obesity: A Retrospective Cohort Study. Contrast Media and Molecular Imaging, 2022, 2022, 1-8.	0.4	0
2651	Platelet transfusion and mortality in patients with sepsis-induced thrombocytopenia: A propensity score matching analysis. Vox Sanguinis, 2022, 117, 1187-1194.	0.7	2

#	ARTICLE	IF	CITATIONS
2652	Prediction Models for One-Year Survival of Adult Patients with Acute Kidney Injury: A Longitudinal Study Based on the Data from the Medical Information Mart for Intensive Care III Database. Evidence-based Complementary and Alternative Medicine, 2022, 2022, 1-13.	0.5	1
2653	Semiparametric Survival Analysis of 30-Day Hospital Readmissions with Bayesian Additive Regression Kernel Model. Stats, 2022, 5, 617-630.	0.5	2
2654	Prediction of All-Cause Mortality Based on Stress/Rest Myocardial Perfusion Imaging (MPI) Using Deep Learning: A Comparison between Image and Frequency Spectra as Input. Journal of Personalized Medicine, 2022, 12, 1105.	1.1	0
2655	Cross-Silo Federated Learning for Multi-Tier Networks with Vertical and Horizontal Data Partitioning. ACM Transactions on Intelligent Systems and Technology, 2022, 13, 1-27.	2.9	2
2656	External validation of a machine learning model to predict hemodynamic instability in intensive care unit. Critical Care, 2022, 26, .	2.5	4
2657	Internal and external validation of machine learning-assisted prediction models for mechanical ventilation-associated severe acute kidney injury. Australian Critical Care, 2022, , .	0.6	1
2658	The obesity paradox for survivors of critically ill patients. Critical Care, 2022, 26, .	2.5	10
2659	Sepsis subphenotyping based on organ dysfunction trajectory. Critical Care, 2022, 26, .	2.5	24
2660	Using natural language processing to identify acute care patients who lack advance directives, decisional capacity, and surrogate decision makers. PLoS ONE, 2022, 17, e0270220.	1.1	4
2661	Triglyceride-glucose index linked to all-cause mortality in critically ill patients: a cohort of 3026 patients. Cardiovascular Diabetology, 2022, 21, .	2.7	21
2662	Shifting machine learning for healthcare from development to deployment and from models to data. Nature Biomedical Engineering, 2022, 6, 1330-1345.	11.6	69
2663	Assessment of Racial and Ethnic Differences in Oxygen Supplementation Among Patients in the Intensive Care Unit. JAMA Internal Medicine, 2022, 182, 849.	2.6	60
2664	A Robust Approach for Electronic Health Record-Based Case-Control Studies with Contaminated Case Pools. Biometrics, 2023, 79, 2023-2035.	0.8	0
2665	Explainable Machine-Learning Model for Prediction of In-Hospital Mortality in Septic Patients Requiring Intensive Care Unit Readmission. Infectious Diseases and Therapy, 2022, 11, 1695-1713.	1.8	12
2666	Machine Learning Techniques Differentiate Alcohol-Associated Hepatitis From Acute Cholangitis in Patients With Systemic Inflammation and Elevated Liver Enzymes. Mayo Clinic Proceedings, 2022, 97, 1326-1336.	1.4	4
2667	Classifying the lifestyle status for Alzheimer's disease from clinical notes using deep learning with weak supervision. BMC Medical Informatics and Decision Making, 2022, 22, .	1.5	8
2668	Leveraging deep learning algorithms for synthetic data generation to design and analyze biological networks. Journal of Biosciences, 2022, 47, .	0.5	12
2669	Do We Need a Specific Corpus and Multiple High-Performance GPUs for Training the BERT Model? An Experiment on COVID-19 Dataset. Machine Learning and Knowledge Extraction, 2022, 4, 641-664.	3.2	3

#	ARTICLE	IF	CITATIONS
2670	HydaLearn. Applied Intelligence, 0, , .	3.3	2
2671	Systemic Inflammation Response Index Is a Promising Prognostic Marker in Elderly Patients With Heart Failure: A Retrospective Cohort Study. Frontiers in Cardiovascular Medicine, 0, 9, .	1.1	12
2672	Neutrophil-to-Lymphocyte Ratio Predicts in-Hospital Mortality in Intracerebral Hemorrhage. Journal of Stroke and Cerebrovascular Diseases, 2022, 31, 106611.	0.7	10
2673	Trustworthy assertion classification through prompting. Journal of Biomedical Informatics, 2022, 132, 104139.	2.5	3
2674	DRCNNTLe: A deep recurrent convolutional neural network with transfer learning through pre-trained embeddings for automated ICD coding. Methods, 2022, 205, 97-105.	1.9	3
2675	Combining Machine Learning with a Rule-Based Algorithm to Detect and Identify Related Entities of Documented Adverse Drug Reactions on Hospital Discharge Summaries. Drug Safety, 2022, 45, 853-862.	1.4	2
2676	Beyond Sparsity: Tree Regularization of Deep Models for Interpretability. Proceedings of the AAAI Conference on Artificial Intelligence, 2018, 32, .	3.6	85
2677	Context-Aware Symptom Checking for Disease Diagnosis Using Hierarchical Reinforcement Learning. Proceedings of the AAAI Conference on Artificial Intelligence, 2018, 32, .	3.6	43
2678	Condensed Memory Networks for Clinical Diagnostic Inferencing. Proceedings of the AAAI Conference on Artificial Intelligence, 2017, 31, .	3.6	26
2679	Learning the Joint Representation of Heterogeneous Temporal Events for Clinical Endpoint Prediction. Proceedings of the AAAI Conference on Artificial Intelligence, 2018, 32, .	3.6	18
2680	KTI-RNN: Recognition of Heart Failure from Clinical Notes. Tsinghua Science and Technology, 2023, 28, 117-130.	4.1	0
2681	Inductive Representation Learning of Multiple ICD Codes for Healthcare. , 2022, , .		0
2682	Detecting beats in the photoplethysmogram: benchmarking open-source algorithms. Physiological Measurement, 2022, 43, 085007.	1.2	18
2683	Enhancing Cross-lingual Biomedical Concept Normalization Using Deep Neural Network Pretrained Language Models. SN Computer Science, 2022, 3, .	2.3	2
2684	Optimizing the First Response to Sepsis: An Electronic Health Record-Based Markov Decision Process Model. Decision Analysis, 2022, 19, 265-296.	1.2	3
2685	Titration of Ventilator Settings to Target Driving Pressure and Mechanical Power. Respiratory Care, 2023, 68, 199-207.	0.8	2
2686	Quantile Regression for Nonignorable Missing Data with Its Application of Analyzing Electronic Medical Records. Biometrics, 2023, 79, 2036-2049.	0.8	1
2687	A prediction and interpretation machine learning framework of mortality risk among severe infection patients with pseudomonas aeruginosa. Frontiers in Medicine, 0, 9, .	1.2	0

#	ARTICLE	IF	CITATIONS
2688	The relationship between hematocrit and serum albumin levels difference and mortality in elderly sepsis patients in intensive care units—a retrospective study based on two large database. BMC Infectious Diseases, 2022, 22, .	1.3	4
2689	Conditional generation of medical time series for extrapolation to underrepresented populations. , 2022, 1, e0000074.		0
2690	œNote Bloat impacts deep learning-based NLP models for clinical prediction tasks. Journal of Biomedical Informatics, 2022, 133, 104149.	2.5	10
2691	Deep Dynamic Patient Similarity Analysis: Model Development and Validation in ICU. Computer Methods and Programs in Biomedicine, 2022, 225, 107033.	2.6	2
2692	Semi-Supervised Biomedical Translation With Cycle Wasserstein Regression GANs. Proceedings of the AAAI Conference on Artificial Intelligence, 2018, 32, .	3.6	17
2694	Enhancing Data Reuse: Standardized Description of the Feature Extraction Process to Transform Raw Data into Meaningful Information (Preprint). JMIR Medical Informatics, 0, , .	1.3	0
2695	ELDA: Learning Explicit Dual-Interactions for Healthcare Analytics. , 2022, , .		1
2696	Deep Neural Networks for Dynamic Attribute based Encryption in IoT-Fog Environment. , 2022, , .		1
2697	Frequency Hopping Sequence Determination Using Inter-Pulse Interval for Human Body Interface and Control Systems. , 2022, , .		0
2698	Multimorbidity profiles and stochastic block modeling improve ICU patient clustering. , 2022, , .		0
2699	Provenance-aware Discovery of Functional Dependencies on Integrated Views. , 2022, , .		0
2700	mTOCS: Mobile Teleophthalmology in Community Settings to improve Eye-health in Diabetic Population. , 2022, , .		0
2701	Contactless Blood Pressure Measurement via Remote Photoplethysmography with Synthetic Data Generation Using Generative Adversarial Network. , 2022, , .		9
2702	Attention-LRCN: Long-term Recurrent Convolutional Network for Stress Detection from Photoplethysmography. , 2022, , .		3
2703	Regression or Classification? Reflection on BP prediction from PPG data using Deep Neural Networks in the scope of practical applications. , 2022, , .		4
2704	Needle in a Haystack: Generating Audit Hypotheses for Clinical Audits of Hospitals. SN Computer Science, 2022, 3, .	2.3	0
2705	Nonparametric Estimation of Repeated Densities with Heterogeneous Sample Sizes. Journal of the American Statistical Association, 2024, 119, 176-188.	1.8	0
2706	Integrating structured and unstructured data for timely prediction of bloodstream infection among children. Pediatric Research, 0, , .	1.1	1

#	ARTICLE	IF	CITATIONS
2708	Evaluation of the neonatal sequential organ failure assessment and mortality risk in neonates with respiratory distress syndrome: A retrospective cohort study. <i>Frontiers in Pediatrics</i> , 0, 10, .	0.9	3
2709	Artificial Intelligence in Healthcare Competition (TEKNOFEST-2021): Stroke Data Set. <i>Eurasian Journal of Medicine</i> , 2022, 54, 248-258.	0.2	8
2710	Development and validation of a nomogram to predict the 30-day mortality risk of patients with intracerebral hemorrhage. <i>Frontiers in Neuroscience</i> , 0, 16, .	1.4	7
2711	Deconfounding Actor-Critic Network with Policy Adaptation for Dynamic Treatment Regimes. , 2022, , .		1
2712	In with the old, in with the new: machine learning for time to event biomedical research. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2022, 29, 1737-1743.	2.2	1
2713	Interaction of hemoglobin, transfusion, and acute kidney injury in patients undergoing cardiopulmonary bypass: a group-based trajectory analysis. <i>Renal Failure</i> , 2022, 44, 1369-1376.	0.8	2
2714	Timing errors and temporal uncertainty in clinical databasesâ€”A narrative review. <i>Frontiers in Digital Health</i> , 0, 4, .	1.5	5
2715	Time-varying intensity of oxygen exposure is associated with mortality in critically ill patients with mechanical ventilation. <i>Critical Care</i> , 2022, 26, .	2.5	9
2716	A hybrid machine learning approach for early mortality prediction of ICU patients. <i>Progress in Artificial Intelligence</i> , 0, , .	1.5	1
2717	Intelligent Optimization Approaches for a Secured Dynamic Partial Reconfigurable Architecture-Based Health Monitoring System. <i>Journal of Circuits, Systems and Computers</i> , 2023, 32, .	1.0	3
2718	Inpatient Fall Prediction Models: A Scoping Review. <i>Gerontology</i> , 2023, 69, 14-29.	1.4	7
2719	A scoping review of publicly available language tasks in clinical natural language processing. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2022, 29, 1797-1806.	2.2	14
2720	Development and validation of a prognostic nomogram among patients with acute exacerbation of chronic obstructive pulmonary disease in intensive care unit. <i>BMC Pulmonary Medicine</i> , 2022, 22, .	0.8	4
2721	Performance of existing clinical scores and laboratory tests for the diagnosis of invasive candidiasis in critically ill, nonneutropenic, adult patients: A systematic review with qualitative evidence synthesis. <i>Mycoses</i> , 2022, 65, 1073-1111.	1.8	6
2722	Base excess is associated with the risk of all-cause mortality in critically ill patients with acute myocardial infarction. <i>Frontiers in Cardiovascular Medicine</i> , 0, 9, .	1.1	2
2723	Artificial Intelligence-Based Medical Data Mining. <i>Journal of Personalized Medicine</i> , 2022, 12, 1359.	1.1	12
2724	Prediction of All-cause Mortality with Sepsis-associated Encephalopathy in the ICU Based on Interpretable Machine Learning. , 2022, , .		0
2725	Accurate Clinical and Biomedical Named Entity Recognition at Scale. <i>Software Impacts</i> , 2022, 13, 100373.	0.8	14

#	ARTICLE	IF	CITATIONS
2726	External validation of the hospital frailty risk score among older adults receiving mechanical ventilation. <i>Scientific Reports</i> , 2022, 12, .	1.6	1
2727	A Computational Modeling and Simulation Workflow to Investigate the Impact of Patient-Specific and Device Factors on Hemodynamic Measurements from Non-Invasive Photoplethysmography. <i>Biosensors</i> , 2022, 12, 598.	2.3	2
2728	Timeâ€dependent prediction of mortality and cytomegalovirus reactivation after allogeneic hematopoietic cell transplantation using machine learning. <i>American Journal of Hematology</i> , 2022, 97, 1309-1323.	2.0	5
2729	Effect of transthoracic echocardiography on short-term outcomes in patients with acute kidney injury in the intensive care unit: a retrospective cohort study based on the MIMIC-III database. <i>Annals of Translational Medicine</i> , 2022, 10, 826-826.	0.7	3
2730	Computational approaches to alleviate alarm fatigue in intensive care medicine: A systematic literature review. <i>Frontiers in Digital Health</i> , 0, 4, .	1.5	9
2731	Association of longitudinal platelet count trajectory with ICU mortality: A multi-cohort study. <i>Frontiers in Immunology</i> , 0, 13, .	2.2	3
2732	The Application of Machine Learning in Predicting Mortality Risk in Patients With Severe Femoral Neck Fractures: Prediction Model Development Study. <i>JMIR Bioinformatics and Biotechnology</i> , 2022, 3, e38226.	0.4	0
2733	Machine learning models for predicting acute kidney injury: a systematic review and critical appraisal. <i>CKJ: Clinical Kidney Journal</i> , 2022, 15, 2266-2280.	1.4	15
2734	Enabling Timely Medical Intervention by Exploring Health-Related Multivariate Time Series with a Hybrid Attentive Model. <i>Sensors</i> , 2022, 22, 6104.	2.1	2
2735	Application of Machine Learning for Clinical Subphenotype Identification in Sepsis. <i>Infectious Diseases and Therapy</i> , 2022, 11, 1949-1964.	1.8	6
2736	An artificial intelligence-based noninvasive solution to estimate pulmonary artery pressure. <i>Frontiers in Cardiovascular Medicine</i> , 0, 9, .	1.1	1
2737	Gender and ethnicity bias in medicine: a text analysis of 1.8 million critical care records. , 2022, 1, .		8
2738	OARD: Open annotations for rare diseases and their phenotypes based on real-world data. <i>American Journal of Human Genetics</i> , 2022, 109, 1591-1604.	2.6	0
2739	Development and usage of an anesthesia data warehouse: lessons learnt from a 10-year project. <i>Journal of Clinical Monitoring and Computing</i> , 0, , .	0.7	1
2740	Real-Time Cuffless Continuous Blood Pressure Estimation Using 1D Squeeze U-Net Model: A Progress toward mHealth. <i>Biosensors</i> , 2022, 12, 655.	2.3	5
2742	DrNote: An open medical annotation service. , 2022, 1, e0000086.		1
2743	New Frontiers of Natural Language Processing in Surgery. <i>American Surgeon</i> , 2023, 89, 43-48.	0.4	4
2744	Association Between Wait Time of Central Venous Pressure Measurement and Outcomes in Critical Patients With Acute Kidney Injury: A Retrospective Cohort Study. <i>Frontiers in Public Health</i> , 0, 10, .	1.3	6

#	ARTICLE	IF	CITATIONS
2745	Predicting Abnormalities in Laboratory Values of Patients in the Intensive Care Unit Using Different Deep Learning Models: Comparative Study. <i>JMIR Medical Informatics</i> , 2022, 10, e37658.	1.3	1
2746	A comparison of statistical methods for modeling count data with an application to hospital length of stay. <i>BMC Medical Research Methodology</i> , 2022, 22, .	1.4	4
2747	Hierarchical label-wise attention transformer model for explainable ICD coding. <i>Journal of Biomedical Informatics</i> , 2022, 133, 104161.	2.5	6
2748	A model-based hybrid soft actor-critic deep reinforcement learning algorithm for optimal ventilator settings. <i>Information Sciences</i> , 2022, 611, 47-64.	4.0	10
2749	Offline reinforcement learning with representations for actions. <i>Information Sciences</i> , 2022, 610, 746-758.	4.0	2
2750	Comparison of pulse rate variability and morphological features of photoplethysmograms in estimation of blood pressure. <i>Biomedical Signal Processing and Control</i> , 2022, 78, 103968.	3.5	6
2751	MBCGAN: An improved generative adversarial network with multi-head self-attention and bidirectional RNN for time series imputation. <i>Engineering Applications of Artificial Intelligence</i> , 2022, 115, 105232.	4.3	20
2752	Association of serum total bilirubin and potential predictors with mortality in acute respiratory failure: A retrospective cohort study. <i>Heart and Lung: Journal of Acute and Critical Care</i> , 2023, 57, 12-18.	0.8	1
2753	Serum Anion Gap Level Predicts All-Cause Mortality in Septic Patients: A Retrospective Study Based on the MIMIC III Database. <i>Journal of Intensive Care Medicine</i> , 2023, 38, 349-357.	1.3	3
2754	Natural language processing in clinical neuroscience and psychiatry: A review. <i>Frontiers in Psychiatry</i> , 0, 13, .	1.3	8
2755	Impact of lactate dehydrogenase on prognosis of patients undergoing cardiac surgery. <i>BMC Cardiovascular Disorders</i> , 2022, 22, .	0.7	3
2756	FHIR-Ontop-OMOP: Building clinical knowledge graphs in FHIR RDF with the OMOP Common data Model. <i>Journal of Biomedical Informatics</i> , 2022, 134, 104201.	2.5	7
2757	Modelling patient trajectories using multimodal information. <i>Journal of Biomedical Informatics</i> , 2022, 134, 104195.	2.5	4
2758	MixEHR-Guided: A guided multi-modal topic modeling approach for large-scale automatic phenotyping using the electronic health record. <i>Journal of Biomedical Informatics</i> , 2022, 134, 104190.	2.5	9
2759	Improving mortality prediction in Acute Pancreatitis by machine learning and data augmentation. <i>Computers in Biology and Medicine</i> , 2022, 150, 106077.	3.9	11
2760	Invasive mechanical ventilation probability estimation using machine learning methods based on non-invasive parameters. <i>Biomedical Signal Processing and Control</i> , 2023, 79, 104193.	3.5	1
2761	An inverse classification framework with limited budget and maximum number of perturbed samples. <i>Expert Systems With Applications</i> , 2023, 212, 118761.	4.4	0
2762	A code-mixed task-oriented dialog dataset for medical domain. <i>Computer Speech and Language</i> , 2023, 78, 101449.	2.9	2

#	ARTICLE	IF	CITATIONS
2763	Adaptive Knowledge Driven Regularization for Deep Neural Networks. Proceedings of the AAAI Conference on Artificial Intelligence, 2021, 35, 8810-8818.	3.6	4
2764	A Machine Learning Approach for Predicting the Death Time and Mortality. Algorithms for Intelligent Systems, 2022, , 83-95.	0.5	0
2765	MGEDR: A Molecular Graph Encoder for Drug Recommendation. Lecture Notes in Computer Science, 2022, , 98-109.	1.0	0
2766	AS-SIM: An Approach to Action-State Process Model Discovery. Lecture Notes in Computer Science, 2022, , 336-345.	1.0	0
2767	FedBCD: A Communication-Efficient Collaborative Learning Framework for Distributed Features. IEEE Transactions on Signal Processing, 2022, 70, 4277-4290.	3.2	19
2768	Explainable Artificial Intelligence Applications in Cyber Security: State-of-the-Art in Research. IEEE Access, 2022, 10, 93104-93139.	2.6	54
2769	Concatenating BioMed-Transformers to Tackle Long Medical Documents and to Improve the Prediction of Tail-End Labels. Lecture Notes in Computer Science, 2022, , 209-221.	1.0	1
2770	Challenges and opportunities for mining adverse drug reactions: perspectives from pharma, regulatory agencies, healthcare providers and consumers. Database: the Journal of Biological Databases and Curation, 2022, 2022, .	1.4	5
2771	TCM-SD: A Benchmark for Probing Syndrome Differentiation via Natural Language Processing. Lecture Notes in Computer Science, 2022, , 247-263.	1.0	1
2772	ProcessBERT: A Pre-trained Language Model for Judging Equivalence of Variable Definitions in Process Models*. IFAC-PapersOnLine, 2022, 55, 957-962.	0.5	3
2773	What Do You See in this Patient? Behavioral Testing of Clinical NLP Models. , 2022, , .		0
2774	ScAN: Suicide Attempt and Ideation Events Dataset. , 2022, , .		1
2775	Curriculum Offline Reinforcement Learning with Progressive Action Space in Intelligent Healthcare Decision-Making. SSRN Electronic Journal, 0, , .	0.4	0
2776	The Association Between High CHA ₂ DS ₂ -VASc Scores and Short and Long-Term Mortality for Coronary Care Unit Patients. Clinical and Applied Thrombosis/Hemostasis, 2022, 28, 107602962211179.	0.7	1
2777	Cuffless Blood Pressure Estimation Based on Both Artificial and Data-Driven Features from Plethysmography. Communications in Computer and Information Science, 2022, , 159-171.	0.4	0
2778	Introduction of medical genomics and clinical informatics integration for p-Health care. Progress in Molecular Biology and Translational Science, 2022, , 1-37.	0.9	3
2779	Combining Chains of Bayesian Models with Markov Melding. Bayesian Analysis, 2023, 18, .	1.6	3
2780	Multi-task Learning Dataset for the Development of a Remote Patient Monitoring System. Lecture Notes in Computer Science, 2022, , 548-554.	1.0	0

#	ARTICLE	IF	CITATIONS
2781	<i>ChartWalk</i>: Navigating large collections of text notes in electronic health records for clinical chart review. IEEE Transactions on Visualization and Computer Graphics, 2023, 29, 1244-1254.	2.9	6
2782	BePCon: A Photoplethysmography-Based Quality-Aware Continuous Beat-to-Beat Blood Pressure Measurement Technique Using Deep Learning. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-9.	2.4	1
2783	Design and Implementation of a Perioperative Medical Data Quality Management Platform. , 2022, , .		0
2784	Approach for Electronic Medical Record Data Analysis. Journal of Health Informatics and Statistics, 2022, 47, S1-S8.	0.1	0
2785	Reconstructing Missing EHRs Using Time-Aware Within- and Cross-Visit Information for Septic Shock Early Prediction. , 2022, , .		2
2786	Acute Kidney Injury Prediction with Gradient Boosting Decision Trees enriched with Temporal Features. , 2022, , .		2
2787	EventScore: An Automated Real-time Early Warning Score for Clinical Events. , 2022, , .		0
2788	From Undergraduate to Doctoral Health Informatics Training: A Data Focus. , 2022, , .		1
2789	Reduce the Cold Start of COVID-19 In-hospital Mortality Prediction Models via Transfer Learning. , 2022, , .		0
2790	Combining Attention-based Models with the MeSH Ontology for Semantic Textual Similarity in Clinical Notes. , 2022, , .		0
2791	A Preliminary Study of Extracting Pulmonary Nodules and Nodule Characteristics from Radiology Reports Using Natural Language Processing. , 2022, , .		0
2792	tinyCare: A tinyML-based Low-Cost Continuous Blood Pressure Estimation on the Extreme Edge. , 2022, , .		5
2793	Alcohol Status Standardization from Clinical Real World Data with Transformer Architectures. , 2022, , .		0
2794	A comparison of few-shot and traditional named entity recognition models for medical text. , 2022, , .		0
2795	Towards Remote Continuous Monitoring of Cytokine Release Syndrome. , 2022, , .		1
2796	Classifying nocturnal blood pressure patterns using photoplethysmogram features. , 2022, , .		0
2797	Improving the Factual Accuracy of Abstractive Clinical Text Summarization using Multi-Objective Optimization. , 2022, , .		1
2798	FLICU: A Federated Learning Workflow for Intensive Care Unit Mortality Prediction. , 2022, , .		3

#	ARTICLE	IF	CITATIONS
2799	Learning Point Processes using Recurrent Graph Network. , 2022, , .		0
2800	Towards An Integrated Framework for Neural Temporal Point Process. , 2022, , .		0
2801	Detecting sepsis from photoplethysmography: strategies for dataset preparation. , 2022, , .		4
2802	Joint Modeling of Document and Label with Clause Interaction Hypergraph for ICD Medical Code Assignment. , 2022, , .		0
2803	Assuring the safety of AI-based clinical decision support systems: a case study of the AI Clinician for sepsis treatment. <i>BMJ Health and Care Informatics</i> , 2022, 29, e100549.	1.4	10
2804	Characterization of Physiologic Patients' Response to Fluid Interventions in the Intensive Care Unit. , 2022, , .		0
2805	Energy-Based DCT Approach for PPG Compression. , 2022, , .		0
2806	AttentionHCare: Advances on computer-aided medical prognosis using attention-based neural networks. , 2022, , .		1
2808	Generative Adversarial Networks in Time Series: A Systematic Literature Review. <i>ACM Computing Surveys</i> , 2023, 55, 1-31.	16.1	50
2810	Evaluating and Visualizing the Contribution of ECG Characteristic Waveforms for PPG-Based Blood Pressure Estimation. <i>Micromachines</i> , 2022, 13, 1438.	1.4	1
2811	Fine-Grained ICD Code Assignment Using Ontology-Based Classification. , 2022, , .		1
2813	The treatment of sepsis: an episodic memory-assisted deep reinforcement learning approach. <i>Applied Intelligence</i> , 2023, 53, 11034-11044.	3.3	3
2814	Non-linear relationship between baseline mean arterial pressure and 30-day mortality in patients with sepsis: a retrospective cohort study based on the MIMIC-III database. <i>Annals of Translational Medicine</i> , 2022, 10, 872-872.	0.7	4
2815	Toward interpretable and actionable data analysis with explanations and causality. <i>Proceedings of the VLDB Endowment</i> , 2022, 15, 3812-3820.	2.1	2
2816	Multimodal biomedical AI. <i>Nature Medicine</i> , 2022, 28, 1773-1784.	15.2	191
2818	Natural Language Processing and Machine Learning to Identify People Who Inject Drugs in Electronic Health Records. <i>Open Forum Infectious Diseases</i> , 2022, 9, .	0.4	3
2819	Application of explainable artificial intelligence for healthcare: A systematic review of the last decade (2011â€“2022). <i>Computer Methods and Programs in Biomedicine</i> , 2022, 226, 107161.	2.6	168
2820	Prediction of Inhospital Mortality in Critically Ill Patients With Sepsis: Confirmation of the Added Value of 24-Hour Lactate to Acute Physiology and Chronic Health Evaluation IV. , 2022, 4, e0750.		2

#	ARTICLE	IF	CITATIONS
2821	Predicting acute kidney injury risk in acute myocardial infarction patients: An artificial intelligence model using medical information mart for intensive care databases. <i>Frontiers in Cardiovascular Medicine</i> , 0, 9, .	1.1	10
2822	Association of Monocyte-to-Lymphocyte and Neutrophil-to-Lymphocyte Ratios With Persistent Critical Illness in Patients With Severe Trauma. <i>Journal of Trauma Nursing: the Official Journal of the Society of Trauma Nurses</i> , 2022, 29, 240-251.	0.3	0
2823	Integrated multimodal artificial intelligence framework for healthcare applications. <i>Npj Digital Medicine</i> , 2022, 5, .	5.7	44
2824	Predicting Mortality Using Machine Learning Algorithms in Patients Who Require Renal Replacement Therapy in the Critical Care Unit. <i>Journal of Clinical Medicine</i> , 2022, 11, 5289.	1.0	6
2825	A study into patient similarity through representation learning from medical records. <i>Knowledge and Information Systems</i> , 2022, 64, 3293-3324.	2.1	1
2826	A prediction model for 30-day mortality of sepsis patients based on intravenous fluids and electrolytes. <i>Medicine (United States)</i> , 2022, 101, e30578.	0.4	0
2827	Support vector machine deep mining of electronic medical records to predict the prognosis of severe acute myocardial infarction. <i>Frontiers in Physiology</i> , 0, 13, .	1.3	1
2829	Construction of a Prediction Model for the Mortality of Elderly Patients with Diabetic Nephropathy. <i>Journal of Healthcare Engineering</i> , 2022, 2022, 1-14.	1.1	1
2830	Effectiveness of sodium bicarbonate infusion on mortality for elderly septic patients with acute metabolic acidosis. <i>Frontiers in Pharmacology</i> , 0, 13, .	1.6	2
2831	Comparison of machine learning algorithms to SAPS II in predicting in-hospital mortality of fractures of the pelvis and acetabulum: analyzes based on MIMIC-III database. <i>International Journal of Transgender Health</i> , 2022, 15, 1000-1012.	1.1	0
2832	Activated Partial Thromboplastin Time and Mortality in Coronary Artery Bypass Grafting Patients. <i>Disease Markers</i> , 2022, 2022, 1-10.	0.6	0
2833	Current status and trends in researches based on public intensive care databases: A scientometric investigation. <i>Frontiers in Public Health</i> , 0, 10, .	1.3	3
2834	Assessing potassium levels in critically ill patients with heart failure: application of a group-based trajectory model. <i>ESC Heart Failure</i> , 0, , .	1.4	1
2835	Identifying the Perceived Severity of Patient-Generated Telemedical Queries Regarding COVID: Developing and Evaluating a Transfer Learning-Based Solution. <i>JMIR Medical Informatics</i> , 2022, 10, e37770.	1.3	1
2836	Relationship between hyperglycaemia at admission and prognosis in patients with acute myocardial infarction: a retrospective cohort study. <i>Postgraduate Medical Journal</i> , 0, , postgradmedj-2021-141454.	0.9	0
2837	Subpopulation-specific machine learning prognosis for underrepresented patients with double prioritized bias correction. <i>Communications Medicine</i> , 2022, 2, .	1.9	10
2838	Dynamic nomogram for predicting acute kidney injury in patients with acute ischemic stroke: A retrospective study. <i>Frontiers in Neurology</i> , 0, 13, .	1.1	3
2839	Chronic Kidney Disease as a Cardiovascular Disorder—Tonometry Data Analyses. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 12339.	1.2	2

#	ARTICLE	IF	CITATIONS
2840	<i>MediCoSpace</i> : Visual Decision-Support for Doctor-Patient Consultations using Medical Concept Spaces from EHRs. ACM Transactions on Management Information Systems, 2023, 14, 1-20.	2.1	1
2841	A systematic review on data of additive manufacturing for machine learning applications: the data quality, type, preprocessing, and management. Journal of Intelligent Manufacturing, 2023, 34, 3305-3340.	4.4	6
2842	Linear normalization attention neural Hawkes process. Neural Computing and Applications, 0, , .	3.2	0
2843	Identify diabetic retinopathy-related clinical concepts and their attributes using transformer-based natural language processing methods. BMC Medical Informatics and Decision Making, 2022, 22, .	1.5	1
2844	Initial Development of an Automated Platform for Assessing Trainee Performance on Case Presentations. ATS Scholar, 2022, 3, 548-560.	0.5	7
2846	BioGPT: generative pre-trained transformer for biomedical text generation and mining. Briefings in Bioinformatics, 2022, 23, .	3.2	154
2847	An AI based digital-twin for prioritising pneumonia patient treatment. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2022, 236, 1662-1674.	1.0	4
2848	DataWords: Getting Contrarian with Text, Structured Data and Explanations. Lecture Notes in Networks and Systems, 2023, , 675-687.	0.5	0
2849	The Association of Renin-Angiotensin System Blockades and Mortality in Patients with Acute Exacerbation of Chronic Obstructive Pulmonary Disease and Acute Respiratory Failure: A Retrospective Cohort Study. International Journal of COPD, 0, Volume 17, 2001-2011.	0.9	3
2850	Algorithmic fairness datasets: the story so far. Data Mining and Knowledge Discovery, 2022, 36, 2074-2152.	2.4	15
2851	Association between predialysis creatinine and mortality in acute kidney injury patients requiring dialysis. PLoS ONE, 2022, 17, e0274883.	1.1	1
2852	Exploring optimal granularity for extractive summarization of unstructured health records: Analysis of the largest multi-institutional archive of health records in Japan. , 2022, 1, e0000099.		2
2853	A retrospective cohort study on the association between early coagulation disorder and short-term all-cause mortality of critically ill patients with congestive heart failure. Frontiers in Cardiovascular Medicine, 0, 9, .	1.1	5
2854	Increased variability of mean arterial pressure is associated with increased risk of short-term mortality in intensive care unit: A retrospective study. Frontiers in Neurology, 0, 13, .	1.1	0
2855	Multitask Balanced and Recalibrated Network for Medical Code Prediction. ACM Transactions on Intelligent Systems and Technology, 2023, 14, 1-20.	2.9	4
2856	Serum albumin and the short-term mortality in individuals with congestive heart failure in intensive care unit: an analysis of MIMIC. Scientific Reports, 2022, 12, .	1.6	5
2857	xPM: Enhancing exogenous data visibility. Artificial Intelligence in Medicine, 2022, 133, 102409.	3.8	4
2859	A Nomogram to Better Predict the In-Hospital Mortality of Trauma Patients with Sepsis in the Intensive Care Unit. International Journal of Clinical Practice, 2022, 2022, 1-9.	0.8	2

#	ARTICLE	IF	CITATIONS
2860	Temporal deep learning framework for retinopathy prediction in patients with type 1 diabetes. Artificial Intelligence in Medicine, 2022, 133, 102408.	3.8	4
2861	Multilayer dynamic ensemble model for intensive care unit mortality prediction of neonate patients. Journal of Biomedical Informatics, 2022, 135, 104216.	2.5	14
2862	AI enabled RPM for mental health facility. , 2022, , .		3
2863	Red blood cell distribution width predicts gastrointestinal bleeding after coronary artery bypass grafting. BMC Cardiovascular Disorders, 2022, 22, .	0.7	1
2865	Penalized Spline-Involved Tree-based (PenSIT) Learning for estimating an optimal dynamic treatment regime using observational data. Statistical Methods in Medical Research, 2022, 31, 2338-2351.	0.7	1
2866	Machine learning for early prediction of sepsis-associated acute brain injury. Frontiers in Medicine, 0, 9, .	1.2	4
2867	Plasma anion gap and risk of in-hospital mortality in patients with spontaneous subarachnoid hemorrhage. Frontiers in Neurology, 0, 13, .	1.1	1
2868	Global healthcare fairness: We should be sharing more, not less, data. , 2022, 1, e0000102.		28
2869	A Pseudo Label-Wise Attention Network for Automatic ICD Coding. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 5201-5212.	3.9	5
2870	Advances in Cuffless Continuous Blood Pressure Monitoring Technology Based on PPG Signals. BioMed Research International, 2022, 2022, 1-16.	0.9	2
2871	Association between serum sodium level trajectories and survival in patients with heart failure. ESC Heart Failure, 0, , .	1.4	4
2875	A Hierarchical Approach to Multi-Event Survival Analysis. Proceedings of the AAAI Conference on Artificial Intelligence, 2021, 35, 591-599.	3.6	4
2876	Boosting Multi-task Learning Through Combination of Task Labels - with Applications in ECG Phenotyping. Proceedings of the AAAI Conference on Artificial Intelligence, 2021, 35, 7771-7779.	3.6	2
2877	Time Series Domain Adaptation via Sparse Associative Structure Alignment. Proceedings of the AAAI Conference on Artificial Intelligence, 2021, 35, 6859-6867.	3.6	20
2878	Memory-Gated Recurrent Networks. Proceedings of the AAAI Conference on Artificial Intelligence, 2021, 35, 10956-10963.	3.6	3
2879	Making the Most of Text Semantics to Improve Biomedical Vision Language Processing. Lecture Notes in Computer Science, 2022, , 1-21.	1.0	27
2880	Deep contextual multi-task feature fusion for enhanced concept, negation and speculation detection from clinical notes. Informatics in Medicine Unlocked, 2022, 34, 101109.	1.9	1
2881	Extraction and quantification of words representing degrees of diseases:Combining methods Fuzzy c-means and Gaussian membership (Preprint). JMIR Formative Research, 0, , .	0.7	0

#	ARTICLE	IF	CITATIONS
2882	Retraining a BERT Model for Transfer Learning in Requirements Engineering: A Preliminary Study. , 2022, , .		1
2883	Artificial Intelligence in Intensive Care Medicine: Bibliometric Analysis. Journal of Medical Internet Research, 2022, 24, e42185.	2.1	9
2884	Machine Learning for Acute Kidney Injury Prediction in the Intensive Care Unit. Advances in Chronic Kidney Disease, 2022, 29, 431-438.	0.6	7
2885	Natural Language Processing in Nephrology. Advances in Chronic Kidney Disease, 2022, 29, 465-471.	0.6	3
2886	Prediction of 30-day mortality in heart failure patients with hypoxic hepatitis: Development and external validation of an interpretable machine learning model. Frontiers in Cardiovascular Medicine, 0, 9, .	1.1	5
2887	A Survey on Medical Explainable AI (XAI): Recent Progress, Explainability Approach, Human Interaction and Scoring System. Sensors, 2022, 22, 8068.	2.1	17
2888	Blood Pressure Measurement: From Cuff-Based to Contactless Monitoring. Healthcare (Switzerland), 2022, 10, 2113.	1.0	4
2889	BioKnowPrompt: Incorporating imprecise knowledge into prompt-tuning verbalizer with biomedical text for relation extraction. Information Sciences, 2022, 617, 346-358.	4.0	8
2890	In-sensor neural network for high energy efficiency analog-to-information conversion. Scientific Reports, 2022, 12, .	1.6	5
2892	Drug Treatment Effect Model Based on MODWT and Hawkes Self-Exciting Point Process. Computational and Mathematical Methods in Medicine, 2022, 2022, 1-11.	0.7	1
2893	Transformer-based models for ICD-10 coding of death certificates with Portuguese text. Journal of Biomedical Informatics, 2022, 136, 104232.	2.5	2
2895	Predicting in-hospital mortality for MIMIC-III patients: A nomogram combined with SOFA score. Medicine (United States), 2022, 101, e31251.	0.4	0
2896	Non-invasive blood pressure estimation combining deep neural networks with pre-training and partial fine-tuning. Physiological Measurement, 2022, 43, 11NT01.	1.2	3
2897	Venous thromboembolism in critically ill patients with pneumonia in the <sc>preâ€œCOVID</sc> â€œ19 era: Data from a large public database. Research and Practice in Thrombosis and Haemostasis, 2022, 6, .	1.0	0
2898	Phenotyping in clinical text with unsupervised numerical reasoning for patient stratification. Experimental Biology and Medicine, 2022, 247, 2038-2052.	1.1	1
2899	Deep Ordinal Neural Network for Length of Stay Estimation in the Intensive Care Units. , 2022, , .		0
2900	Construction and validation of a nomogram for predicting survival in elderly patients with cardiac surgery. Frontiers in Public Health, 0, 10, .	1.3	3
2901	Application of convex hull analysis for the evaluation of data heterogeneity between patient populations of different origin and implications of hospital bias in downstream machine-learning-based data processing: A comparison of 4 critical-care patient datasets. Frontiers in Big Data, 0, 5, .	1.8	4

#	ARTICLE	IF	CITATIONS
2902	Algorithmic fairness audits in intensive care medicine: artificial intelligence for all?. <i>Critical Care</i> , 2022, 26, .	2.5	3
2903	Common data model for COVID-19 datasets. <i>Bioinformatics</i> , 2022, 38, 5466-5468.	1.8	1
2904	Natural language processing (NLP) aided qualitative method in health research. <i>Journal of Integrated Design and Process Science</i> , 2023, 27, 41-58.	0.2	4
2905	Semi-Automated Approach for Building Event Logs for Process Mining from Relational Database. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 10832.	1.3	1
2906	Predicting medical events and ICU requirements using a multimodal multiobjective transformer network. <i>Experimental Biology and Medicine</i> , 2022, 247, 1988-2002.	1.1	2
2907	Simulation of a machine learning enabled learning health system for risk prediction using synthetic patient data. <i>Scientific Reports</i> , 2022, 12, .	1.6	3
2908	Lower Platelet-to-Lymphocyte Ratio Was Associated with Poor Prognosis for Newborn Patients in NICU. <i>Medicina (Lithuania)</i> , 2022, 58, 1397.	0.8	1
2909	Interpretable machine learning for 28-day all-cause in-hospital mortality prediction in critically ill patients with heart failure combined with hypertension: A retrospective cohort study based on medical information mart for intensive care database-IV and eICU databases. <i>Frontiers in Cardiovascular Medicine</i> , 0, 9, .	1.1	18
2910	Prediction of persistent acute kidney injury in postoperative intensive care unit patients using integrated machine learning: a retrospective cohort study. <i>Scientific Reports</i> , 2022, 12, .	1.6	3
2911	Body mass index, blood glucose, and mortality in patients with ischemic stroke in the intensive care unit: A retrospective cohort study. <i>Frontiers in Neuroscience</i> , 0, 16, .	1.4	0
2912	Association between albumin infusion and septic patients with coronary heart disease: A retrospective study based on medical information mart for intensive care III database. <i>Frontiers in Cardiovascular Medicine</i> , 0, 9, .	1.1	5
2913	The Association of Blood Urea Nitrogen to Creatinine Ratio and the Prognosis of Critically Ill Patients with Cerebral Infarction: A Cohort Study. <i>Mediators of Inflammation</i> , 2022, 2022, 1-8.	1.4	2
2915	Postoperative anion gap associates with short- and long-term mortality after cardiac surgery: A large-scale cohort study. <i>Frontiers in Cardiovascular Medicine</i> , 0, 9, .	1.1	2
2916	Lifting Hospital Electronic Health Record Data Treasures: Challenges and Opportunities. <i>JMIR Medical Informatics</i> , 2022, 10, e38557.	1.3	4
2918	Benchmarking emergency department prediction models with machine learning and public electronic health records. <i>Scientific Data</i> , 2022, 9, .	2.4	9
2919	Leveraging Multiple Types of Domain Knowledge for Safe and Effective Drug Recommendation. , 2022, , .		4
2920	Concepts encoding via knowledge-guided self-attention networks. , 2022, , .		0
2922	The baseline and repeated measurements of DBP to assess in-hospital mortality risk among critically ill patients with acute myocardial infarction: A retrospective cohort study. <i>Medicine (United States)</i> , 2022, 101, e30980.	0.4	1

#	ARTICLE	IF	CITATIONS
2923	DeepMPM: a mortality risk prediction model using longitudinal EHR data. BMC Bioinformatics, 2022, 23, .	1.2	6
2924	Event-Based Clinical Finding Extraction from Radiology Reports with Pre-trained Language Model. Journal of Digital Imaging, 2023, 36, 91-104.	1.6	1
2925	Association between admission serum phosphate and risk of acute kidney injury in critically ill patients with rhabdomyolysis: A retrospective study based on MIMIC-â...ç. Injury, 2023, 54, 189-197.	0.7	3
2926	Uâ€shaped association between body mass index and ejection fraction in intensive care unit patients with heart failure. ESC Heart Failure, 0, , .	1.4	1
2927	Development and validation of prediction model using nursing notes on sentiment scores for prognosis of patients with severe acute kidney injury receiving continuous renal replacement therapy based on computational intelligence algorithms. Annals of Translational Medicine, 2022, 10, 1110-1110.	0.7	0
2928	Enteral nutrition improves the prognosis and immune nutritional status of patients in the cardiothoracic surgery recovery unit: A propensity scoreâ€“matched analysis. Clinical Nutrition, 2022, 41, 2699-2705.	2.3	3
2929	Explainable AI for clinical and remote health applications: a survey on tabular and time series data. Artificial Intelligence Review, 2023, 56, 5261-5315.	9.7	20
2930	Donepezil treatment is associated with improved outcomes in critically ill dementia patients via a reduction in delirium. Alzheimer's and Dementia, 2023, 19, 1742-1751.	0.4	7
2931	High resolution data modifies intensive care unit dialysis outcome predictions as compared with low resolution administrative data set. , 2022, 1, e0000124.		0
2932	Stroke mortality prediction based on ensemble learning and the combination of structured and textual data. Computers in Biology and Medicine, 2023, 155, 106176.	3.9	2
2933	TextC/R/RCNN for multi-label classification based ICD coding. , 2022, , .		0
2934	Association between fluid balance and mortality for heart failure and sepsis: a propensity score-matching analysis. BMC Anesthesiology, 2022, 22, .	0.7	1
2935	Automated clinical coding: what, why, and where we are?. Npj Digital Medicine, 2022, 5, .	5.7	12
2936	Classifying sepsis from photoplethysmography. Health Information Science and Systems, 2022, 10, .	3.4	6
2937	Biological signatures and prediction of an immunosuppressive statusâ€“persistent critical illnessâ€“among orthopedic trauma patients using machine learning techniques. Frontiers in Immunology, 0, 13, .	2.2	8
2938	CATNet: Cross-event attention-based time-aware network for medical event prediction. Artificial Intelligence in Medicine, 2022, 134, 102440.	3.8	4
2939	Thiamine supplementation may be associated with improved prognosis in patients with sepsis. British Journal of Nutrition, 2023, 130, 239-248.	1.2	2
2940	Applying an Improved Stacking Ensemble Model to Predict the Mortality of ICU Patients with Heart Failure. Journal of Clinical Medicine, 2022, 11, 6460.	1.0	13

#	ARTICLE	IF	CITATIONS
2941	Combining the anion gap with the sequential organ failure assessment score to evaluate the short-term prognosis of patients in the cardiac intensive care unit. <i>International Journal of Cardiology</i> , 2023, 370, 381-387.	0.8	2
2942	Novel approaches to capturing and using continuous cardiorespiratory physiological data in hospitalized children. <i>Pediatric Research</i> , 0, , .	1.1	0
2943	Deep learning for rare disease: A scoping review. <i>Journal of Biomedical Informatics</i> , 2022, 135, 104227.	2.5	9
2944	Superhuman performance on sepsis MIMIC-III data by distributional reinforcement learning. <i>PLoS ONE</i> , 2022, 17, e0275358.	1.1	4
2945	RadioBERT: A deep learning-based system for medical report generation from chest X-ray images using contextual embeddings. <i>Journal of Biomedical Informatics</i> , 2022, 135, 104220.	2.5	7
2946	MERGE: A Multi-graph Attentive Representation learning framework integrating Group information from similar patients. <i>Computers in Biology and Medicine</i> , 2022, 151, 106245.	3.9	2
2947	Effects of noise and filtering strategies on the extraction of pulse rate variability from photoplethysmograms. <i>Biomedical Signal Processing and Control</i> , 2023, 80, 104291.	3.5	4
2948	Features Fusion Framework for Multimodal Irregular Time-series Events. <i>Lecture Notes in Computer Science</i> , 2022, , 366-379.	1.0	1
2949	Knowledge-Based Systems in Medicine. , 2022, , 75-108.		0
2950	Research on Prediction Model of Cardiogenic Shock in-Hospital Death Based on Machine Learning. <i>Advances in Clinical Medicine</i> , 2022, 12, 10081-10090.	0.0	0
2951	Natural Language Processing. , 2022, , 213-234.		0
2952	Machine Learning Systems. , 2022, , 135-211.		0
2953	Meta-learning for healthcare. , 2023, , 299-330.		0
2954	Model-based meta-learning approaches. , 2023, , 25-37.		0
2955	Duration of photoplethysmographic signals for the extraction of Pulse Rate Variability Indices. <i>Biomedical Signal Processing and Control</i> , 2023, 80, 104214.	3.5	1
2956	Using Deep Transfer Learning to Detect Hyperkalemia From Ambulatory Electrocardiogram Monitors in Intensive Care Units: Personalized Medicine Approach. <i>Journal of Medical Internet Research</i> , 2022, 24, e41163.	2.1	1
2957	COPER: Continuous Patient State Perceiver. , 2022, , .		4
2958	Continual learning of longitudinal health records. , 2022, , .		6

#	ARTICLE	IF	CITATIONS
2959	Methodological Analysis of Blood Pressure Learning using Boro Receptors Model. , 2022, , .		0
2960	Machine Learning Model for the Prediction of Hemorrhage in Intensive Care Units. Healthcare Informatics Research, 2022, 28, 364-375.	1.0	1
2961	Critical assessment of transformer-based AI models for German clinical notes. JAMIA Open, 2022, 5, .	1.0	6
2962	Classification of user queries according to a hierarchical medical procedure encoding system using an ensemble classifier. Frontiers in Artificial Intelligence, 0, 5, .	2.0	0
2963	Organ-On-A-Chip Database Revealedâ€™Achieving the Human Avatar in Silicon. Bioengineering, 2022, 9, 685.	1.6	4
2964	A survey on syntactic processing techniques. Artificial Intelligence Review, 2023, 56, 5645-5728.	9.7	4
2965	Association of serum anion gap and risk of longâ€™term mortality in patients following coronary artery bypass grafting: A propensity score matching study. Journal of Cardiac Surgery, 2022, 37, 4906-4918.	0.3	2
2966	Time interval uncertainty-aware and text-enhanced based disease prediction. Journal of Biomedical Informatics, 2023, 139, 104239.	2.5	0
2967	A machine learning-based prediction model for in-hospital mortality among critically ill patients with hip fracture: An internal and external validated study. Injury, 2023, 54, 636-644.	0.7	10
2969	Postoperative central venous pressure is associated with acute kidney injury in patients undergoing coronary artery bypass grafting. Frontiers in Cardiovascular Medicine, 0, 9, .	1.1	3
2970	Identifying and analyzing sepsis states: A retrospective study on patients with sepsis in ICUs. , 2022, 1, e0000130.		0
2971	Blood creatinine and urea nitrogen at ICU admission and the risk of in-hospital death and 1-year mortality in patients with intracranial hemorrhage. Frontiers in Cardiovascular Medicine, 0, 9, .	1.1	5
2972	Multimodal Representation Learning For Real-World Applications. , 2022, , .		0
2973	A machine learning model to predict diuretic resistance. Kidney360, 0, 4, 10.34067/KID.0005562022.	0.9	0
2974	ConBERT: A Concatenation of Bidirectional Transformers for Standardization of Operative Reports from Electronic Medical Records. Applied Sciences (Switzerland), 2022, 12, 11250.	1.3	0
2975	The Health Gym: synthetic health-related datasets for the development of reinforcement learning algorithms. Scientific Data, 2022, 9, .	2.4	16
2976	Malnutrition Defined by Geriatric Nutritional Risk Index Predicts Outcomes in Severe Stroke Patients: A Propensity Score-Matched Analysis. Nutrients, 2022, 14, 4786.	1.7	10
2977	DataSifterText: Partially Synthetic Text Generation for Sensitive Clinical Notes. Journal of Medical Systems, 2022, 46, .	2.2	1

#	ARTICLE	IF	CITATIONS
2978	Developing robust benchmarks for driving forward AI innovation in healthcare. <i>Nature Machine Intelligence</i> , 2022, 4, 916-921.	8.3	11
2979	THE EFFECTS OF EARLY-PHASE FUROSEMIDE USE ON THE PROGRESSION OF OLIGURIC ACUTE KIDNEY INJURY ACROSS DIFFERENT CENTRAL VENOUS PRESSURE: A RETROSPECTIVE ANALYSIS. <i>Shock</i> , 2023, 59, 49-57.	1.0	1
2980	Relationship between mean corpuscular volume and 30-day mortality in patients with intracerebral hemorrhage: Evidence from the MIMIC-III database. <i>Medicine (United States)</i> , 2022, 101, e31415.	0.4	0
2981	Information extraction from electronic medical documents: state of the art and future research directions. <i>Knowledge and Information Systems</i> , 2023, 65, 463-516.	2.1	19
2982	Deep Knowledge Reasoning guided Disease Prediction. , 2022, , .		0
2983	A Comprehensive Review of the State-of-the-Art on Security and Privacy Issues in Healthcare. <i>ACM Computing Surveys</i> , 2023, 55, 1-38.	16.1	10
2984	An interpretable RL framework for pre-deployment modeling in ICU hypotension management. <i>Npj Digital Medicine</i> , 2022, 5, .	5.7	1
2985	Assessing the effects of data drift on the performance of machine learning models used in clinical sepsis prediction. <i>International Journal of Medical Informatics</i> , 2023, 173, 104930.	1.6	12
2986	Artificial Intelligence and Machine Learning in Spine Surgery. , 2023, , 213-229.		0
2987	ICU Mortality Prediction Using Long Short-Term Memory Networks. <i>Lecture Notes in Computer Science</i> , 2022, , 242-251.	1.0	0
2988	A Survey of Deep Learning for Electronic Health Records. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 11709.	1.3	6
2990	Why did AI get this one wrong? â€” Tree-based explanations of machine learning model predictions. <i>Artificial Intelligence in Medicine</i> , 2023, 135, 102471.	3.8	10
2991	Data Driven Classification of Opioid Patients Using Machine Learningâ€”An Investigation. <i>IEEE Access</i> , 2023, 11, 396-409.	2.6	2
2992	Mortality Risk Evaluation: A Proposal for Intensive Care Units Patients Exploring Machine Learning Methods. <i>Lecture Notes in Computer Science</i> , 2022, , 1-14.	1.0	1
2993	A Systematic Review of Echo State Networks From Design to Application. <i>IEEE Transactions on Artificial Intelligence</i> , 2024, 5, 23-37.	3.4	10
2994	Deep Learning-Based Prediction of Mechanical Ventilation Reintubation in Intensive Care Units. , 2022, , 15-22.		0
2995	A Knowledge-Guided Method for Disease Prediction Based on Attention Mechanism. <i>Lecture Notes in Computer Science</i> , 2022, , 329-340.	1.0	1
2996	Data-Driven Disease Progression Modeling. <i>Computers in Health Care</i> , 2022, , 247-276.	0.2	0

#	ARTICLE	IF	CITATIONS
2997	Comparison of BERT implementations for natural language processing of narrative medical documents. Informatics in Medicine Unlocked, 2023, 36, 101139.	1.9	7
2998	Machine understanding surgical actions from intervention procedure textbooks. Computers in Biology and Medicine, 2023, 152, 106415.	3.9	6
2999	An explainable knowledge distillation method with XGBoost for ICU mortality prediction. Computers in Biology and Medicine, 2023, 152, 106466.	3.9	10
3000	Developing a deep learning natural language processing algorithm for automated reporting of adverse drug reactions. Journal of Biomedical Informatics, 2023, 137, 104265.	2.5	6
3001	Style-transfer counterfactual explanations: An application to mortality prevention of ICU patients. Artificial Intelligence in Medicine, 2023, 135, 102457.	3.8	1
3002	Data synthesis and adversarial networks: A review and meta-analysis in cancer imaging. Medical Image Analysis, 2023, 84, 102704.	7.0	9
3003	DPlanner: A Privacy Budgeting System for Utility. IEEE Transactions on Information Forensics and Security, 2023, 18, 1196-1210.	4.5	0
3004	Effect of sex on the association between arterial partial pressure of oxygen and in-hospital mortality in ICU patients with cardiogenic shock: a retrospective cohort study. Annals of Translational Medicine, 2022, , .	0.7	0
3005	Evidence based treatment suggestion model for predicted ailment. AIP Conference Proceedings, 2022, , .	0.3	0
3006	Development of an end-to-end NLP application for prediction of medical case coding complexity (Preprint). JMIR Medical Informatics, 0, , .	1.3	1
3007	Domain Generalization via Selective Consistency Regularization for Time Series Classification. , 2022, , .		0
3008	Text-guided visual representation learning for medical image retrieval systems. , 2022, , .		2
3009	Multimodal Recommender System in the Prediction of Disease Comorbidity. , 2022, , .		0
3010	CORRELATION BETWEEN RED BLOOD CELL DISTRIBUTION WIDTHâ€™TOâ€™PLATELET RATIO AND MORTALITY IN PATIENTS WITH ACUTE RESPIRATORY DISTRESS SYNDROME: A RETROSPECTIVE COHORT STUDY. Shock, 2022, 58, 498-506.	1.0	2
3011	Hypertension Classification Using PPG Signals. , 2022, , .		2
3012	BGLM: big data-guided LOINC mapping with multi-language support. JAMIA Open, 2022, 5, .	1.0	2
3013	A Quantitative Approach and Preliminary Application in Healthy Subjects and Patients with Valvular Heart Disease for 24-h Breathing Patterns Analysis Using Wearable Devices. , 2022, , .		0
3014	Deep Learning Model for Blood Pressure Estimation from PPG Signal. , 2022, , .		0

#	ARTICLE	IF	CITATIONS
3016	Novel predictors and a predictive model of cerebrovascular atherosclerotic ischemic stroke based on clinical databases. <i>Neurological Research</i> , 2023, 45, 391-399.	0.6	0
3017	Unsupervised Numerical Reasoning to Extract Phenotypes from Clinical Text by Leveraging External Knowledge. <i>Studies in Computational Intelligence</i> , 2023, , 11-28.	0.7	0
3018	Using Nursing Notes to Predict Length of Stay in ICU for Critically Ill Patients. <i>Studies in Computational Intelligence</i> , 2023, , 387-398.	0.7	0
3019	Mortality prediction in ICU Using a Stacked Ensemble Model. <i>Computational and Mathematical Methods in Medicine</i> , 2022, 2022, 1-12.	0.7	3
3020	Mortality Prediction and Safe Drug Recommendation for Critically-ill Patients. , 2022, , .		4
3021	MedBERT: A Pre-trained Language Model for Biomedical Named Entity Recognition. , 2022, , .		6
3022	Knowledge-aware representation learning for diagnosis prediction. <i>Expert Systems</i> , 2023, 40, .	2.9	1
3023	A comparative study of pretrained language models for long clinical text. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2023, 30, 340-347.	2.2	17
3024	Development of an Open-Source Annotated Glaucoma Medication Dataset From Clinical Notes in the Electronic Health Record. <i>Translational Vision Science and Technology</i> , 2022, 11, 20.	1.1	4
3025	A Curriculum Batching Strategy for Automatic ICD Coding with Deep Multi-Label Classification Models. <i>Healthcare (Switzerland)</i> , 2022, 10, 2397.	1.0	0
3026	Predicting ICU Length of Stay for Patients with Diabetes Using Machine Learning Techniques. , 2022, , .		3
3027	Evaluation of Sequential and Temporally Embedded Deep Learning Models for Health Outcome Prediction. <i>Advances in Intelligent Systems and Computing</i> , 2023, , 21-52.	0.5	0
3028	Towards enabling learnware to handle heterogeneous feature spaces. <i>Machine Learning</i> , 0, , .	3.4	0
3029	A reproducible experimental survey on biomedical sentence similarity: A string-based method sets the state of the art. <i>PLoS ONE</i> , 2022, 17, e0276539.	1.1	0
3030	Classification of Blood Pressure Levels Based on Photoplethysmogram and Electrocardiogram Signals with a Concatenated Convolutional Neural Network. <i>Diagnostics</i> , 2022, 12, 2886.	1.3	3
3032	Large databases in healthcare – opportunities and prospects. <i>Medical Alphabet</i> , 2022, , 8-11.	0.0	1
3033	SEPRES: ICU clinical data integration system to predict sepsis. <i>Applied Clinical Informatics</i> , 0, , .	0.8	1
3034	A Method to Explore Variations of Ventilator-Associated Event Surveillance Definitions in Large Critical Care Databases in the United States. , 2022, 4, e0790.		2

#	ARTICLE	IF	CITATIONS
3035	Deep learning-based age estimation from chest X-rays indicates cardiovascular prognosis. <i>Communications Medicine</i> , 2022, 2, .	1.9	11
3037	A machine learning approach using endpoint adjudication committee labels for the identification of sepsis predictors at the emergency department. <i>BMC Emergency Medicine</i> , 2022, 22, .	0.7	1
3038	TERTIAN: Clinical Endpoint Prediction in ICU via Time-Aware Transformer-Based Hierarchical Attention Network. <i>Computational Intelligence and Neuroscience</i> , 2022, 2022, 1-13.	1.1	0
3039	The association between serum anion gap and all-cause mortality of unselected adult patients: A retrospective cohort study of >20,000 patients. <i>Journal of Clinical Laboratory Analysis</i> , 2023, 37, .	0.9	4
3040	Reduced oxygen saturation entropy is associated with poor prognosis in critically ill patients with sepsis. <i>Physiological Reports</i> , 2022, 10, .	0.7	2
3041	Klarigi: Characteristic explanations for semantic biomedical data. <i>Computers in Biology and Medicine</i> , 2023, 153, 106425.	3.9	2
3042	Elevated Red Blood Cell Distribution Width Is Associated with Poor Prognosis in Fractured Patients Admitted to Intensive Care Units. <i>Orthopaedic Surgery</i> , 2023, 15, 525-533.	0.7	2
3043	Clinical Artificial Intelligence. <i>Clinics in Laboratory Medicine</i> , 2023, 43, 29-46.	0.7	1
3044	Learning from undercoded clinical records for automated International Classification of Diseases (ICD) coding. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2023, 30, 438-446.	2.2	1
3045	BME 2.0: Engineering the Future of Medicine. <i>BME Frontiers</i> , 2023, 4, .	2.2	2
3046	Predicting Intensive Care Delirium with Machine Learning: Model Development and External Validation. <i>Anesthesiology</i> , 2023, 138, 299-311.	1.3	8
3047	Platelet Transfusion After Cardiac Surgery. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2023, 37, 528-538.	0.6	5
3048	Impact of Falls Within 3 Months on the Short-Term Prognoses of Elderly Patients in Intensive Care Units: A Retrospective Cohort Study Using Stabilized Inverse Probability Treatment Weighting. <i>Clinical Interventions in Aging</i> , 0, Volume 17, 1779-1792.	1.3	2
3049	A U-shaped association of tracheostomy timing with all-cause mortality in mechanically ventilated patients admitted to the intensive care unit: A retrospective cohort study. <i>Frontiers in Medicine</i> , 0, 9, .	1.2	2
3050	Pleural effusions are associated with adverse outcomes after cardiac surgery: a propensity-matched analysis. <i>Journal of Cardiothoracic Surgery</i> , 2022, 17, .	0.4	2
3051	Clinical Application of Detecting COVID-19 Risks: A Natural Language Processing Approach. <i>Viruses</i> , 2022, 14, 2761.	1.5	1
3052	Cryoprecipitate Transfusion After Cardiac Surgery. <i>Heart Lung and Circulation</i> , 2022, , .	0.2	3
3053	A survey on clinical natural language processing in the United Kingdom from 2007 to 2022. <i>Npj Digital Medicine</i> , 2022, 5, .	5.7	16

#	ARTICLE	IF	CITATIONS
3054	Predicting Risk Factors of Acute Kidney Injury in the First 7 Days after Admission: Analysis of a Group of Critically Ill Patients. <i>Cardiovascular Therapeutics</i> , 2022, 2022, 1-14.	1.1	0
3056	Association Between Lactate and 28-Day Mortality in Elderly Patients with Sepsis: Results from MIMIC-IV Database. <i>Infectious Diseases and Therapy</i> , 2023, 12, 459-472.	1.8	3
3057	A comprehensive review on knowledge graphs for complex diseases. <i>Briefings in Bioinformatics</i> , 2023, 24, .	3.2	1
3058	Application of fairness to healthcare, organizational justice, and finance: A survey. <i>Expert Systems With Applications</i> , 2023, 216, 119465.	4.4	2
3059	Temporal convolutional networks and data rebalancing for clinical length of stay and mortality prediction. <i>Scientific Reports</i> , 2022, 12, .	1.6	5
3060	Development and Validation of a Prediction Model for Need for Massive Transfusion During Surgery Using Intraoperative Hemodynamic Monitoring Data. <i>JAMA Network Open</i> , 2022, 5, e2246637.	2.8	8
3062	Ethics and legal regulation of using large databases in medicine. , 2022, , .		0
3063	Deciphering clinical abbreviations with a privacy protecting machine learning system. <i>Nature Communications</i> , 2022, 13, .	5.8	6
3064	Association between first 24-h mean body temperature and mortality in patients with diastolic heart failure in intensive care unit: A retrospective cohort study. <i>Frontiers in Medicine</i> , 0, 9, .	1.2	0
3065	Multimodal Learning for Multi-omics: A Survey. , 2023, 01, .		1
3066	Early predicting 30-day mortality in sepsis in MIMIC-III by an artificial neural networks model. <i>European Journal of Medical Research</i> , 2022, 27, .	0.9	2
3067	RISK OF HOSPITAL MORTALITY IN CRITICALLY ILL PATIENTS WITH TRANSIENT AND PERSISTENT THROMBOCYTOPENIA: A RETROSPECTIVE STUDY. <i>Shock</i> , 2022, 58, 471-475.	1.0	2
3068	Identifying and evaluating barriers for the implementation of machine learning in the intensive care unit. <i>Communications Medicine</i> , 2022, 2, .	1.9	12
3069	Infections in Acute Pancreatitis: Organisms, Resistance-Patterns and Effect on Mortality. <i>Digestive Diseases and Sciences</i> , 2023, 68, 630-643.	1.1	4
3070	Entering the new digital era of intensive care medicine: an overview of interdisciplinary approaches to use artificial intelligence for patientsâ€™ benefit. , 2023, 2, e0014.		2
3071	Is artificial intelligence capable of generating hospital discharge summaries from inpatient records?. , 2022, 1, e0000158.		3
3072	Comparative effectiveness and safety of bolus vs. continuous infusion of loop diuretics: Results from the MIMIC-III Database. <i>American Journal of the Medical Sciences</i> , 2023, 365, 353-360.	0.4	1
3073	A large language model for electronic health records. <i>Npj Digital Medicine</i> , 2022, 5, .	5.7	130

#	ARTICLE	IF	CITATIONS
3075	Machine learning and deep learning for blood pressure prediction: a methodological review from multiple perspectives. <i>Artificial Intelligence Review</i> , 2023, 56, 8095-8196.	9.7	1
3076	Characteristics and clinical outcomes of patients with lung cancer requiring ICU admission: a retrospective analysis based on the MIMIC-III database. , 2023, 2, .		1
3077	Development of a novel tool: a nomogram for predicting in-hospital mortality of patients in intensive care unit after percutaneous coronary intervention. <i>BMC Anesthesiology</i> , 2023, 23, .	0.7	1
3078	Automatic ICD Coding Based on Multi-granularity Feature Fusion. <i>Lecture Notes in Computer Science</i> , 2022, , 19-29.	1.0	1
3079	Cross-Domain Joint Dictionary Learning for ECG Inference From PPG. <i>IEEE Internet of Things Journal</i> , 2023, 10, 8140-8154.	5.5	0
3080	Clinical Phenotyping Prediction via Auxiliary Task Selection and Adaptive Shared-Space Correction. <i>Lecture Notes in Computer Science</i> , 2022, , 438-449.	1.0	0
3081	Independent effects of the triglyceride-glucose index on all-cause mortality in critically ill patients with coronary heart disease: analysis of the MIMIC-III database. <i>Cardiovascular Diabetology</i> , 2023, 22, .	2.7	20
3082	Relationship between serum sodium levels and all-cause mortality in congestive heart failure patients: A retrospective cohort study based on the Mimic-III database. <i>Frontiers in Cardiovascular Medicine</i> , 0, 9, .	1.1	4
3084	The Association of Proton Pump Inhibitors and QT Interval Prolongation in Critically Ill Patients. <i>Cardiovascular Drugs and Therapy</i> , 0, , .	1.3	1
3085	Association between acute kidney injury and prognoses of cardiac surgery patients: Analysis of the MIMIC-III database. <i>Frontiers in Surgery</i> , 0, 9, .	0.6	2
3086	Association between hyperglycemia and adverse clinical outcomes of sepsis patients with diabetes. <i>Frontiers in Endocrinology</i> , 0, 13, .	1.5	3
3087	Secure Medical Data Collection in the Internet of Medical Things Based on Local Differential Privacy. <i>Electronics (Switzerland)</i> , 2023, 12, 307.	1.8	3
3088	Knowledge graph enrichment from clinical narratives using NLP, NER, and biomedical ontologies for healthcare applications. <i>International Journal of Information Technology (Singapore)</i> , 2023, 15, 53-65.	1.8	4
3089	MIMIC-IV, a freely accessible electronic health record dataset. <i>Scientific Data</i> , 2023, 10, .	2.4	195
3091	Stress-induced Hyperglycemia Ratio as an Independent Risk Factor of In-hospital Mortality in Nonresuscitation Intensive Care Units: A Retrospective Study. <i>Clinical Therapeutics</i> , 2023, 45, 31-39.	1.1	1
3092	A nomogram for predicting the mortality of patients with type 2 diabetes mellitus complicated with acute kidney injury in the intensive care unit. <i>BMC Anesthesiology</i> , 2023, 23, .	0.7	1
3093	Knowledge-aware patient representation learning for multiple disease subtypes. <i>Journal of Biomedical Informatics</i> , 2023, 138, 104292.	2.5	1
3094	Artificial intelligence can use physiological parameters to optimize treatment strategies and predict clinical deterioration of sepsis in ICU. <i>Physiological Measurement</i> , 2023, 44, 015003.	1.2	1

#	ARTICLE	IF	CITATIONS
3095	Differentially Private Release of Heterogeneous Network for Managing Healthcare Data. <i>ACM Transactions on Knowledge Discovery From Data</i> , 2023, 17, 1-30.	2.5	2
3096	Predicting readmission to the cardiovascular intensive care unit using recurrent neural networks. <i>Digital Health</i> , 2023, 9, 205520762211495.	0.9	3
3097	Clinical concept recognition: Evaluation of existing systems on EHRs. <i>Frontiers in Artificial Intelligence</i> , 0, 5, .	2.0	2
3098	Entropy Balancing for Causal Generalization with Target Sample Summary Information. <i>Biometrics</i> , 2023, 79, 3179-3190.	0.8	1
3099	Federated electronic data capture (fEDC): Architecture and prototype. <i>Journal of Biomedical Informatics</i> , 2023, 138, 104280.	2.5	1
3100	Prediction of extubation failure among low birthweight neonates using machine learning. <i>Journal of Perinatology</i> , 2023, 43, 209-214.	0.9	5
3101	Domain Adaptation: Challenges, Methods, Datasets, and Applications. <i>IEEE Access</i> , 2023, 11, 6973-7020.	2.6	12
3102	Natural Language Processing Applications for Computer-Aided Diagnosis in Oncology. <i>Diagnostics</i> , 2023, 13, 286.	1.3	19
3103	Obesity is associated with postoperative outcomes in patients undergoing cardiac surgery: a cohort study. <i>BMC Anesthesiology</i> , 2023, 23, .	0.7	1
3104	Mining for equitable health: Assessing the impact of missing data in electronic health records. <i>Journal of Biomedical Informatics</i> , 2023, 139, 104269.	2.5	14
3105	Dual Attention and Patient Similarity Network for drug recommendation. <i>Bioinformatics</i> , 2023, 39, .	1.8	4
3106	Optimal Sampling for Positive Only Electronic Health Record Data. <i>Biometrics</i> , 2023, 79, 2974-2986.	0.8	0
3107	Heart failure disease prediction and stratification with temporal electronic health records data using patient representation. <i>Biocybernetics and Biomedical Engineering</i> , 2023, 43, 124-141.	3.3	4
3108	Research frontiers and trends in the application of artificial intelligence to sepsis: A bibliometric analysis. <i>Frontiers in Medicine</i> , 0, 9, .	1.2	2
3109	Clinical effectiveness of sodium bicarbonate therapy on mortality for septic patients with acute moderate lactic acidosis. <i>Frontiers in Pharmacology</i> , 0, 13, .	1.6	0
3111	Machine Learning Techniques, Applications, and Potential Future Opportunities in Pressure Injuries (Bedsore) Management: A Systematic Review. <i>International Journal of Environmental Research and Public Health</i> , 2023, 20, 796.	1.2	12
3112	Natural language processing for clinical notes in dentistry: A systematic review. <i>Journal of Biomedical Informatics</i> , 2023, 138, 104282.	2.5	6
3113	A deep learning method to detect opioid prescription and opioid use disorder from electronic health records. <i>International Journal of Medical Informatics</i> , 2023, 171, 104979.	1.6	1

#	ARTICLE	IF	CITATIONS
3114	Fusion Model for Tentative Diagnosis Inference Based on Clinical Narratives. Tsinghua Science and Technology, 2023, 28, 686-695.	4.1	1
3115	Use of Deep Learning for Continuous Prediction of Mortality for All Admissions in Intensive Care Units. Tsinghua Science and Technology, 2023, 28, 639-648.	4.1	1
3116	A Comprehensive and Improved Definition for Hospital-Acquired Pressure Injury Classification Based on Electronic Health Records: Comparative Study. JMIR Medical Informatics, 0, 11, e40672.	1.3	1
3117	Explainable Prediction of Medical Codes through Automated Knowledge Graph Curation Framework. , 2022, , .		0
3118	Vietnamese Electronic Medical Record Management with Text Preprocessing for Spelling Errors. , 2022, , .		0
3119	Association Discovery from Electronic Medical Records towards Personalized Treatment. , 2022, , .		1
3120	Feature-Guided Logical Perception Network for Health Risk Prediction. , 2022, , .		1
3121	Early Postoperative Acetaminophen Administration and Severe Acute Kidney Injury After Cardiac Surgery. American Journal of Kidney Diseases, 2022, , .	2.1	1
3122	Prediction and risk assessment of sepsis-associated encephalopathy in ICU based on interpretable machine learning. Scientific Reports, 2022, 12, .	1.6	5
3123	EHR2HG: Modeling of EHRs Data Based on Hypergraphs for Disease Prediction. , 2022, , .		2
3124	Development and Trends in Artificial Intelligence in Critical Care Medicine: A Bibliometric Analysis of Related Research over the Period of 2010â€“2021. Journal of Personalized Medicine, 2023, 13, 50.	1.1	5
3126	Compound Density Networks for Risk Prediction using Electronic Health Records. , 2022, , .		1
3127	VentSR: A Self-Rectifying Deep Learning Method for Extubation Readiness Prediction. , 2022, , .		1
3128	Knowledge-Enhanced Dual Graph Neural Network for Robust Medicine Recommendation. , 2022, , .		3
3129	Therapeutic Prediction task on Electronic Health Record using DeBERTa. , 2022, , .		2
3130	Advancement in the Cuffless and Noninvasive Measurement of Blood Pressure: A Review of the Literature and Open Challenges. Bioengineering, 2023, 10, 27.	1.6	9
3131	A Predictive Model for 30-Day Mortality of Fungemia in ICUs. Infection and Drug Resistance, 0, Volume 15, 7841-7852.	1.1	1
3132	Preoperative albumin corrected anion gap is associated with in-hospital and long-term mortality in patients undergoing coronary artery bypass grafting in a retrospective cohort study. Journal of Thoracic Disease, 2022, 14, 4894-4903.	0.6	3

#	ARTICLE	IF	CITATIONS
3133	Private Federated Framework for Health Data. , 2022, , .		0
3134	Unified Fine-Grained Biomedical Entity Recognition as a Combination of Boundary Detection and Sequence Generation. , 2022, , .		0
3135	Optimization of Biomedical Language Model with Optuna and a Sentencepiece Tokenization for NER. , 2022, , .		2
3136	How are children with medical complexity being identified in epidemiological studies? A systematic review. World Journal of Pediatrics, 0, , .	0.8	2
3137	Patient Condition Change Network for Safe Medication Recommendation. , 2022, , .		1
3138	Generalizable deep clustering based on Bi-LSTM with applications to sepsis and acute kidney disease populations. , 2022, , .		0
3139	Integrated Convolutional and Recurrent Neural Networks for Health Risk Prediction using Patient Journey Data with Many Missing Values. , 2022, , .		0
3140	Analysis of delirium prediction in the ICU based on the hybrid SGDCS-ANFIS approach. Medical and Biological Engineering and Computing, 0, , .	1.6	0
3141	Transferability and interpretability of the sepsis prediction models in the intensive care unit. BMC Medical Informatics and Decision Making, 2022, 22, .	1.5	4
3142	Evaluating Edge Computing and Compression for Remote Cuff-Less Blood Pressure Monitoring. Journal of Sensor and Actuator Networks, 2023, 12, 2.	2.3	2
3143	Utilization of Personalized Machine-Learning to Screen for Dysglycemia from Ambulatory ECG, toward Noninvasive Blood Glucose Monitoring. Biosensors, 2023, 13, 23.	2.3	2
3144	Drug Recommendation from Diagnosis Codes: Classification vs. Collaborative Filtering Approaches. International Journal of Environmental Research and Public Health, 2023, 20, 309.	1.2	6
3145	UniMed: Multimodal Multitask Learning for Medical Predictions. , 2022, , .		1
3146	Machine Learning Models to Analyze the Effect of Drugs on Neonatal-ICU Length of Stay. Communications in Computer and Information Science, 2022, , 186-204.	0.4	0
3147	A Deep Learning Based Approach to Automate Clinical Coding of Electronic Health Records. Lecture Notes in Computer Science, 2022, , 104-116.	1.0	0
3148	Association between central venous pressure measurement and outcomes in critically ill patients with severe coma. European Journal of Medical Research, 2023, 28, .	0.9	0
3149	Knowledge Graph Embeddings for ICU readmission prediction. BMC Medical Informatics and Decision Making, 2023, 23, .	1.5	9
3150	Identifying encephalopathy in patients admitted to an intensive care unit: Going beyond structured information using natural language processing. Frontiers in Digital Health, 0, 5, .	1.5	0

#	ARTICLE	IF	CITATIONS
3151	Evaluating the Impact of Health Care Data Completeness for Deep Generative Models. <i>Methods of Information in Medicine</i> , 2023, 62, 031-039.	0.7	2
3153	Development and validation of a survival prediction model in elder patients with community-acquired pneumonia: a MIMIC-population-based study. <i>BMC Pulmonary Medicine</i> , 2023, 23, .	0.8	1
3154	Performer: A Novel PPG-to-ECG Reconstruction Transformer for a Digital Biomarker of Cardiovascular Disease Detection. , 2023, , .		6
3155	Predicting Drug Treatment for Hospitalized Patients with Heart Failure. <i>Communications in Computer and Information Science</i> , 2023, , 275-290.	0.4	0
3156	Development and validation of a prognostic nomogram model for ICU patients with alcohol-associated cirrhosis. <i>Digestive and Liver Disease</i> , 2023, 55, 498-504.	0.4	1
3157	Establishment of a Chinese critical care database from electronic healthcare records in a tertiary care medical center. <i>Scientific Data</i> , 2023, 10, .	2.4	3
3158	Prediction of Serious Intracranial Hypertension from Low-Resolution Neuromonitoring in Traumatic Brain Injury: An Explainable Machine Learning Approach. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2023, , 1-11.	3.9	1
3159	Covid-19: The Effect on Hospitalization Patient of Ophthalmology Department in "Antonio Cardarelli" Hospital. <i>Lecture Notes in Computer Science</i> , 2023, , 489-495.	1.0	0
3160	Sentiment analysis of medical record notes for lung cancer patients at the Department of Veterans Affairs. <i>PLoS ONE</i> , 2023, 18, e0280931.	1.1	1
3161	Machine Learning-Based Mortality Prediction Model for Critically Ill Cancer Patients Admitted to the Intensive Care Unit (CaniCU). <i>Cancers</i> , 2023, 15, 569.	1.7	4
3162	Permutation Entropy Analysis to Intracranial Hypertension from a Porcine Model. <i>Entropy</i> , 2023, 25, 267.	1.1	1
3163	Admission Heart Rate and Mortality in Critically Ill Patients with Acute Aortic Dissection. <i>International Heart Journal</i> , 2023, 64, 44-52.	0.5	2
3164	Smart Work Injury Management (SWIM) System: A Machine Learning Approach for the Prediction of Sick Leave and Rehabilitation Plan. <i>Bioengineering</i> , 2023, 10, 172.	1.6	1
3165	Hybrid CNN-SVR Blood Pressure Estimation Model Using ECG and PPG Signals. <i>Sensors</i> , 2023, 23, 1259.	2.1	5
3166	Dynamic predictions of postoperative complications from explainable, uncertainty-aware, and multi-task deep neural networks. <i>Scientific Reports</i> , 2023, 13, .	1.6	4
3167	Two-Step Approach for Occupancy Estimation in Intensive Care Units Based on Bayesian Optimization Techniques. <i>Sensors</i> , 2023, 23, 1162.	2.1	2
3168	MIMIC-IV on FHIR: converting a decade of in-patient data into an exchangeable, interoperable format. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2023, 30, 718-725.	2.2	5
3169	A prediction model for in-hospital mortality in intensive care unit patients with metastatic cancer. <i>Frontiers in Surgery</i> , 0, 10, .	0.6	0

#	ARTICLE	IF	CITATIONS
3170	β-Blockers could improve the 28-day and 3-year survival of patients with end-stage renal disease: a retrospective cohort study. <i>International Urology and Nephrology</i> , 2023, 55, 1597-1607.	0.6	0
3171	Developing an Interpretable Machine Learning Model to Predict in-Hospital Mortality in Sepsis Patients: A Retrospective Temporal Validation Study. <i>Journal of Clinical Medicine</i> , 2023, 12, 915.	1.0	3
3172	Emulating clinical pressure waveforms in cell culture using an Arduino-controlled millifluidic 3D-printed platform for 96-well plates. <i>Lab on A Chip</i> , 2023, 23, 793-802.	3.1	1
3173	A Framework for Automatic Clustering of EHR Messages Using a Spatial Clustering Approach. <i>Healthcare (Switzerland)</i> , 2023, 11, 390.	1.0	2
3174	TiLT: A Time-Centric Approach for Stream Query Optimization and Parallelization. , 2023, , .		0
3175	Simple Explanations to Summarise Subgroup Discovery Outcomes: A Case Study Concerning Patient Phenotyping. <i>Communications in Computer and Information Science</i> , 2023, , 434-451.	0.4	0
3176	A Novel Approach for Non-linear Deep Fuzzy Rule-Based Model and Its Applications in Biomedical Analyses. <i>Intelligent Systems Reference Library</i> , 2023, , 63-103.	1.0	0
3177	Model-free feature selection to facilitate automatic discovery of divergent subgroups in tabular data. , 2022, , .		1
3178	GAN-based Differential Privacy Trajectory Data Publishing with Sensitive Label. , 2022, , .		0
3179	TD3 with Reverse KL Regularizer for Offline Reinforcement Learning from Mixed Datasets. , 2022, , .		0
3180	On Efficient Approximate Queries over Machine Learning Models. <i>Proceedings of the VLDB Endowment</i> , 2022, 16, 918-931.	2.1	1
3181	An Exploration of Learning About Cardiovascular Disease Prediction using Deep Learning. , 2022, , .		0
3182	Predicting chronic diseases using clinical notes and fine-tuned transformers. , 2022, , .		0
3183	Generation of Synthetic Tabular Healthcare Data Using Generative Adversarial Networks. <i>Lecture Notes in Computer Science</i> , 2023, , 434-446.	1.0	1
3184	Automatic ICD Coding Based on Segmented ClinicalBERT with Hierarchical Tree Structure Learning. <i>Lecture Notes in Computer Science</i> , 2023, , 250-265.	1.0	0
3185	DP-MHAN: A Disease Prediction Method Based on Metapath Aggregated Heterogeneous Graph Attention Networks. <i>Lecture Notes in Computer Science</i> , 2023, , 276-285.	1.0	0
3186	FFBDNet: Feature Fusion and Bipartite Decision Networks for Recommending Medication Combination. <i>Lecture Notes in Computer Science</i> , 2023, , 419-436.	1.0	1
3187	Understanding Views Around the Creation of a Consented, Donated Databank of Clinical Free Text to Develop and Train Natural Language Processing Models for Research: Focus Group Interviews With Stakeholders. <i>JMIR Medical Informatics</i> , 0, 11, e45534.	1.3	0

#	ARTICLE	IF	CITATIONS
3188	Two-Stage Multilayer Perceptron Hawkes Process. Communications in Computer and Information Science, 2023, , 28-39.	0.4	0
3189	Patient Mortality Prediction and Analysis of Health Cloud Data Using a Deep Neural Network. Applied Sciences (Switzerland), 2023, 13, 2391.	1.3	1
3190	Prognostic value of inflammation biomarkers for 30-day mortality in critically ill patients with stroke. Frontiers in Neurology, 0, 14, .	1.1	3
3191	<scp>Buckleyâ€“James</scp> estimation of generalized additive accelerated lifetime model with ultrahighâ€“dimensional data. Statistical Analysis and Data Mining, 2023, 16, 305-312.	1.4	1
3192	Pre-training in Medical Data: A Survey. , 2023, 20, 147-179.		3
3193	Structural causal model with expert augmented knowledge to estimate the effect of oxygen therapy on mortality in the ICU. Artificial Intelligence in Medicine, 2023, 137, 102493.	3.8	1
3194	Clinical And Echocardiographic Predictors Of Recovery Of Moderate-To-Severe Sepsis-Associated Acute Kidney Injury In Critically Ill Patients. Journal of Community Hospital Internal Medicine Perspectives, 2023, 13, .	0.4	0
3195	An efficient edge/cloud medical system for rapid detection of level of consciousness in emergency medicine based on explainable machine learning models. Neural Computing and Applications, 2023, 35, 10695-10716.	3.2	2
3196	A Machine Learning Approach to the Non-Invasive Estimation of Continuous Blood Pressure Using Photoplethysmography. Applied Sciences (Switzerland), 2023, 13, 3955.	1.3	2
3197	Data processing pipeline for cardiogenic shock prediction using machine learning. Frontiers in Cardiovascular Medicine, 0, 10, .	1.1	1
3198	Identifying Reasons for Statin Nonuse in Patients With Diabetes Using Deep Learning of Electronic Health Records. Journal of the American Heart Association, 2023, 12, .	1.6	2
3199	Early human albumin administration is associated with reduced mortality in septic shock patients with acute respiratory distress syndrome: A retrospective study from the MIMIC-III database. Frontiers in Physiology, 0, 14, .	1.3	2
3200	Predicting relations between SOAP note sections: The value of incorporating a clinical information model. Journal of Biomedical Informatics, 2023, 141, 104360.	2.5	1
3201	A Multidatabase ExTRaction PipELine (METRE) for facile cross validation in critical care research. Journal of Biomedical Informatics, 2023, 141, 104356.	2.5	0
3202	Interpretable machine learning models for predicting in-hospital death in patients in the intensive care unit with cerebral infarction. Computer Methods and Programs in Biomedicine, 2023, 231, 107431.	2.6	1
3203	A Bayesian method for the automatic extraction of meaningful clinical sequences from large clinical databases. Computer Methods and Programs in Biomedicine, 2023, 233, 107392.	2.6	1
3204	Prediction of acute hypertensive episodes in critically ill patients. Artificial Intelligence in Medicine, 2023, 139, 102525.	3.8	4
3205	Discharge summary hospital course summarisation of in patient Electronic Health Record text with clinical concept guided deep pre-trained Transformer models. Journal of Biomedical Informatics, 2023, 141, 104358.	2.5	5

#	ARTICLE	IF	CITATIONS
3206	Synthetic data generation: State of the art in health care domain. Computer Science Review, 2023, 48, 100546.	10.2	20
3207	Wavelet based ensemble models for early mortality prediction using imbalance ICU big data. Smart Health, 2023, 28, 100374.	2.0	0
3208	CPAE: Contrastive predictive autoencoder for unsupervised pre-training in health status prediction. Computer Methods and Programs in Biomedicine, 2023, 234, 107484.	2.6	2
3209	Survey of Machine Learning based intrusion detection methods for Internet of Medical Things. Applied Soft Computing Journal, 2023, 140, 110227.	4.1	23
3210	Multitask deep label distribution learning for blood pressure prediction. Information Fusion, 2023, 95, 426-445.	11.7	5
3211	Machine Learning for Decision Support in the ICU. , 2022, , 1514-1529.		0
3212	Analysis of the impact of COVID-19 on the organization of liver transplantation. , 2022, , .		0
3213	Novel architecture for gated recurrent unit autoencoder trained on time series from electronic health records enables detection of ICU patient subgroups. Scientific Reports, 2023, 13, .	1.6	1
3214	A distributable German clinical corpus containing cardiovascular clinical routine doctorâ€™s letters. Scientific Data, 2023, 10, .	2.4	0
3216	Building an automated, machine learning-enabled platform for predicting post-operative complications. Physiological Measurement, 2023, 44, 024001.	1.2	1
3217	Mortality prediction among ICU inpatients based on MIMIC-III database results from the conditional medical generative adversarial network. Heliyon, 2023, 9, e13200.	1.4	2
3218	DR.BENCH: Diagnostic Reasoning Benchmark for Clinical Natural Language Processing. Journal of Biomedical Informatics, 2023, 138, 104286.	2.5	2
3219	Auto-Regressive Self-Attention Models for Diagnosis Prediction on Electronic Health Records. , 2022, , .		1
3220	CCS Explorer: Relevance Prediction, Extractive Summarization, and Named Entity Recognition from Clinical Cohort Studies. , 2022, , .		4
3221	Critic-over-Actor-Critic Modeling: Finding Optimal Strategy in ICU Environments. , 2022, , .		0
3222	Age-adjusted Charlson Comorbidity Index as effective predictor for in-hospital mortality of patients with cardiac arrest: a retrospective study. BMC Emergency Medicine, 2023, 23, .	0.7	5
3224	A Systematic Review of Application Progress on Machine Learning-Based Natural Language Processing in Breast Cancer over the Past 5 Years. Diagnostics, 2023, 13, 537.	1.3	0
3225	Learning Representations from Local to Global for Fine-grained Patient Similarity Measuring in Intensive Care Unit. , 2022, , .		1

#	ARTICLE	IF	CITATIONS
3226	Deep Stable Representation Learning on Electronic Health Records. , 2022, , .		1
3227	Building a knowledge graph to enable precision medicine. Scientific Data, 2023, 10, .	2.4	51
3228	A value-based deep reinforcement learning model with human expertise in optimal treatment of sepsis. Npj Digital Medicine, 2023, 6, .	5.7	6
3229	A new criteria for acute on preexisting kidney dysfunction in critically ill patients. Renal Failure, 2023, 45, .	0.8	3
3230	IMPACTO-MR: um estudo brasileiro de plataforma nacional para avaliar infecções e multirresistência em unidades de terapia intensiva. Revista Brasileira De Terapia Intensiva, 2022, 34, .	0.1	1
3231	Continuous diagnosis and prognosis by controlling the update process of deep neural networks. Patterns, 2023, 4, 100687.	3.1	1
3232	DGCL: Distance-wise and Graph Contrastive Learning for medication recommendation. Journal of Biomedical Informatics, 2023, 139, 104301.	2.5	8
3234	Transparent reporting of multivariable prediction models developed or validated using clustered data (TRIPOD-Cluster): explanation and elaboration. BMJ, The, 0, , e071058.	3.0	7
3235	Deep learning approach to detection of colonoscopic information from unstructured reports. BMC Medical Informatics and Decision Making, 2023, 23, .	1.5	0
3236	PulseDB: A large, cleaned dataset based on MIMIC-III and VitalDB for benchmarking cuff-less blood pressure estimation methods. Frontiers in Digital Health, 0, 4, .	1.5	4
3237	Analysis of risk factors for severe acute kidney injury in patients with acute myocardial infarction: A retrospective study. , 0, 3, .		1
3238	Model Personalization with Static and Dynamic Patients' Data. , 2022, , .		0
3239	Clinical-GAN: Trajectory Forecasting of Clinical Events using Transformer and Generative Adversarial Networks. Artificial Intelligence in Medicine, 2023, 138, 102507.	3.8	3
3240	DCSF: Deep Convolutional Set Functions for Classification of Asynchronous Time Series. , 2022, , .		1
3241	The magnitude, but not the duration of elevated central venous pressure is associated with mortality in sepsis patients: An analysis of the MIMIC-IV database. PLoS ONE, 2023, 18, e0281549.	1.1	3
3242	Predicting length of stay ranges by using novel deep neural networks. Heliyon, 2023, 9, e13573.	1.4	1
3243	A Residual CNN Model for ICD Assignment. , 2022, , 331-341.		0
3245	Death Comes But Why: An Interpretable Illness Severity Predictions in ICU. Lecture Notes in Computer Science, 2023, , 60-75.	1.0	2

#	ARTICLE	IF	CITATIONS
3247	Minimum heart rate and mortality after cardiac surgery: retrospective analysis of the Multi-parameter Intelligent Monitoring in Intensive Care (MIMIC-III) database. <i>Scientific Reports</i> , 2023, 13, .	1.6	1
3248	Clinical utility of automatic phenotype annotation in unstructured clinical notes: intensive care unit use. <i>BMJ Health and Care Informatics</i> , 2022, 29, e100519.	1.4	1
3249	Improving Intensive Care Unit Early Readmission Prediction Using Optimized and Explainable Machine Learning. <i>International Journal of Environmental Research and Public Health</i> , 2023, 20, 3455.	1.2	4
3250	Machine Learning Augmented Interpretation of Chest X-rays: A Systematic Review. <i>Diagnostics</i> , 2023, 13, 743.	1.3	9
3251	Recurrent neural network for complex survival problems. <i>Journal of Statistical Computation and Simulation</i> , 2023, 93, 2232-2256.	0.7	0
3252	The 2022 n2c2/UW shared task on extracting social determinants of health. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2023, 30, 1367-1378.	2.2	12
3253	Clinical Concept-Based Radiology Reports Classification Pipeline for Lung Carcinoma. <i>Journal of Digital Imaging</i> , 2023, 36, 812-826.	1.6	1
3254	Applying a Social Determinants of Health Framework to Guide Digital Innovations That Reduce Disparities in Chronic Disease. <i>Psychosomatic Medicine</i> , 2023, 85, 659-669.	1.3	2
3255	Photoplethysmography Signal Wavelet Enhancement and Novel Features Selection for Non-Invasive Cuff-Less Blood Pressure Monitoring. <i>Sensors</i> , 2023, 23, 2321.	2.1	5
3256	A New Risk Model Based on the Machine Learning Approach for Prediction of Mortality in the Respiratory Intensive Care Unit. <i>Current Pharmaceutical Biotechnology</i> , 2023, 24, .	0.9	0
3257	Blood pressure stratification using photoplethysmography and light gradient boosting machine. <i>Frontiers in Physiology</i> , 0, 14, .	1.3	7
3258	Explainable clinical coding with in-domain adapted transformers. <i>Journal of Biomedical Informatics</i> , 2023, 139, 104323.	2.5	0
3260	Could an artificial intelligence approach to prior authorization be more human?. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2023, 30, 989-994.	2.2	2
3261	Machine Learning for Multimodal Electronic Health Records-Based Research: Challenges and Perspectives. <i>Communications in Computer and Information Science</i> , 2023, , 135-155.	0.4	1
3262	Unstructured Data Are Superior to Structured Data for Eliciting Quantitative Smoking History From the Electronic Health Record. <i>JCO Clinical Cancer Informatics</i> , 2023, , .	1.0	2
3264	The impact of inconsistent human annotations on AI driven clinical decision making. <i>Npj Digital Medicine</i> , 2023, 6, .	5.7	10
3265	A deep learning system for heart failure mortality prediction. <i>PLoS ONE</i> , 2023, 18, e0276835.	1.1	2
3266	Outcomes and predictors of delayed endoscopic biliary drainage for severe acute cholangitis due to choledocholithiasis in an intensive care unit. <i>Digestive and Liver Disease</i> , 2023, 55, 763-770.	0.4	2

#	ARTICLE	IF	CITATIONS
3267	Correlating contexts and NFR conflicts from event logs. <i>Software and Systems Modeling</i> , 0, , .	2.2	1
3268	Prognostic value of C-reactive protein to albumin ratio for mortality in acute kidney injury. <i>BMC Nephrology</i> , 2023, 24, .	0.8	4
3269	The Value of Short-term Physiological History and Contextual Data in Predicting Hypotension in the ICU Settings. <i>Computer Methods and Programs in Biomedicine Update</i> , 2023, 3, 100100.	2.3	0
3271	Survey on the Biomedical Text Summarization Techniques with an Emphasis on Databases, Techniques, Semantic Approaches, Classification Techniques, and Similarity Measures. <i>Sustainability</i> , 2023, 15, 4216.	1.6	0
3272	Automated ICD coding for coronary heart diseases by a deep learning method. <i>Heliyon</i> , 2023, 9, e14037.	1.4	1
3273	Strategies of Predictive Schemes and Clinical Diagnosis for Prognosis Using MIMIC-III: A Systematic Review. <i>Healthcare (Switzerland)</i> , 2023, 11, 710.	1.0	0
3274	Machine Learning Based Hospital Mortality Prediction Using Synthetic Minority Oversampling Technique. , 2022, , .		0
3275	A hybrid deep learning approach for phenotype prediction from clinical notes. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2023, 14, 4503-4513.	3.3	0
3276	Towards more efficient and robust evaluation of sepsis treatment with deep reinforcement learning. <i>BMC Medical Informatics and Decision Making</i> , 2023, 23, .	1.5	1
3277	Integrating Structured and Unstructured EHR Data for Predicting Mortality by Machine Learning and Latent Dirichlet Allocation Method. <i>International Journal of Environmental Research and Public Health</i> , 2023, 20, 4340.	1.2	4
3279	Assessment of Natural Language Processing of Electronic Health Records to Measure Goals-of-Care Discussions as a Clinical Trial Outcome. <i>JAMA Network Open</i> , 2023, 6, e231204.	2.8	7
3280	Albumin Level is Associated with Short-Term and Long-Term Outcomes in Sepsis Patients Admitted in the ICU: A Large Public Database Retrospective Research. <i>Clinical Epidemiology</i> , 0, Volume 15, 263-273.	1.5	6
3281	Unsupervised <sc>EHR</sc>-based phenotyping via matrix and tensor decompositions. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , 2023, 13, .	4.6	1
3282	WAVES â€” The Lucile Packard Childrenâ€™s Hospital Pediatric Physiological Waveforms Dataset. <i>Scientific Data</i> , 2023, 10, .	2.4	1
3283	Deep multi-modal intermediate fusion of clinical record and time series data in mortality prediction. <i>Frontiers in Molecular Biosciences</i> , 0, 10, .	1.6	4
3284	Impact of atrial fibrillation on the accuracy of oscillometric blood pressure monitoring in ICU patients from a large real-world database. <i>Journal of Hypertension</i> , 2023, 41, 838-844.	0.3	0
3285	A clinically applicable prediction model for the risk of in-hospital mortality in solid cancer patients admitted to intensive care units with sepsis. <i>Journal of Cancer Research and Clinical Oncology</i> , 0, , .	1.2	1
3287	Association and prediction of red blood cell distribution width to albumin ratio in all-cause mortality of acute kidney injury in critically ill patients. <i>Frontiers in Medicine</i> , 0, 10, .	1.2	3

#	ARTICLE	IF	CITATIONS
3288	Effects of propofol, benzodiazepines, and opioids on survival in cancer patients: a retrospective cohort study based on MIMIC-III. <i>Biotechnology and Genetic Engineering Reviews</i> , 0, , 1-14.	2.4	0
3289	Statin Use is Associated with Reduced Mortality in Mechanically Ventilated Patients: A Retrospective Propensity-Matched Analysis of MIMIC-III Database. <i>Intensive Care Research</i> , 0, , .	0.2	0
3290	Applications of Artificial Intelligence in Thrombocytopenia. <i>Diagnostics</i> , 2023, 13, 1060.	1.3	4
3291	Machine-aided PPG Signal Quality Assessment (SQA) for Multi-mode Physiological Signal Monitoring. <i>ACM Transactions on Computing for Healthcare</i> , 2023, 4, 1-20.	3.3	1
3292	A Two-Step Approach to Overcoming Data Imbalance in the Development of an Electrocardiography Data Quality Assessment Algorithm: A Real-World Data Challenge. <i>Biomimetics</i> , 2023, 8, 119.	1.5	0
3293	Targeted optimal treatment regime learning using summary statistics. <i>Biometrika</i> , 2023, 110, 913-931.	1.3	3
3294	Co-design of Human-centered, Explainable AI for Clinical Decision Support. <i>ACM Transactions on Interactive Intelligent Systems</i> , 2023, 13, 1-35.	2.6	3
3295	The Future of Patient Monitoring. , 2023, , 1-15.		0
3296	Linguistic and ontological challenges of multiple domains contributing to transformed health ecosystems. <i>Frontiers in Medicine</i> , 0, 10, .	1.2	2
3297	Contextualized Graph Embeddings for Adverse Drug Event Detection. <i>Lecture Notes in Computer Science</i> , 2023, , 605-620.	1.0	3
3298	AutoMap: Automatic Medical Code Mapping for Clinical Prediction Model Deployment. <i>Lecture Notes in Computer Science</i> , 2023, , 505-520.	1.0	1
3300	Justifying Multi-label Text Classifications for Healthcare Applications. <i>Lecture Notes in Computer Science</i> , 2023, , 406-413.	1.0	0
3301	Trends and opportunities in computable clinical phenotyping: A scoping review. <i>Journal of Biomedical Informatics</i> , 2023, 140, 104335.	2.5	5
3302	Association between admission systemic immune-inflammation index and mortality in critically ill patients with sepsis: a retrospective cohort study based on MIMIC-IV database. <i>Clinical and Experimental Medicine</i> , 2023, 23, 3641-3650.	1.9	7
3303	A Systematic Review of Transformer-Based Pre-Trained Language Models through Self-Supervised Learning. <i>Information (Switzerland)</i> , 2023, 14, 187.	1.7	9
3304	Bibliometric and visual analysis of machine learning-based research in acute kidney injury worldwide. <i>Frontiers in Public Health</i> , 0, 11, .	1.3	2
3305	Review of Natural Language Processing in Pharmacology. <i>Pharmacological Reviews</i> , 2023, 75, 714-738.	7.1	1
3306	Improving clinical documentation: automatic inference of ICD-10 codes from patient notes using BERT model. <i>Journal of Supercomputing</i> , 0, , .	2.4	0

#	ARTICLE	IF	CITATIONS
3307	Interpretation and Use of Applied/Operational Machine Learning and Artificial Intelligence in Surgery. <i>Surgical Clinics of North America</i> , 2023, 103, 317-333.	0.5	6
3308	Actionable Suggestions in Support of Rehospitalization Risk Predicted by Artificial Intelligence. , 2023, , .		0
3309	Medication Prediction Using Memory Augmented Heterogeneous Information Fusion Network. , 2022, , .		0
3310	Applications of artificial intelligence in clinical management, research, and health administration: imaging perspectives with a focus on hemophilia. <i>Expert Review of Hematology</i> , 2023, 16, 391-405.	1.0	1
3311	Community Detection Algorithms in Healthcare Applications: A Systematic Review. <i>IEEE Access</i> , 2023, 11, 30247-30272.	2.6	44
3312	Explainable Machine Learning to Predict Successful Weaning of Mechanical Ventilation in Critically Ill Patients Requiring Hemodialysis. <i>Healthcare (Switzerland)</i> , 2023, 11, 910.	1.0	0
3314	Anaemia in the first week may be associated with long-term mortality among critically ill patients: propensity score-based analyses. <i>BMC Emergency Medicine</i> , 2023, 23, .	0.7	3
3315	Cuff-Less Blood Pressure Prediction Based on Photoplethysmography and Modified ResNet. <i>Bioengineering</i> , 2023, 10, 400.	1.6	5
3316	Predicting heart failure in-hospital mortality by integrating longitudinal and category data in electronic health records. <i>Medical and Biological Engineering and Computing</i> , 0, , .	1.6	1
3317	Aspirin Therapy and 28-Day Mortality in ICU Patients: A Retrospective Observational Study From Two Large Databases. <i>Clinical Therapeutics</i> , 2023, 45, 316-332.	1.1	0
3318	Feature Selection using Generalized Linear Model for Machine Learning-based Sepsis Prediction. , 2023, , .		0
3319	Understanding the opportunity and application of synthetic data in healthcare. <i>Paediatric and Perinatal Epidemiology</i> , 0, , .	0.8	1
3320	Early Enteral Nutrition and Sepsis-Associated Acute Kidney Injury: A Propensity Score Matched Cohort Study Based on the MIMIC-III Database. <i>Yonsei Medical Journal</i> , 2023, 64, 259.	0.9	2
3321	Data drift in medical machine learning: implications and potential remedies. <i>British Journal of Radiology</i> , 2023, 96, .	1.0	16
3322	Effect of β -blockers on mortality in patients with sepsis: A propensity-score matched analysis. <i>Frontiers in Cellular and Infection Microbiology</i> , 0, 13, .	1.8	3
3323	Serum Lactate-Albumin Ratio: Soothsayer for Outcome in Sepsis. <i>Cureus</i> , 2023, , .	0.2	0
3324	timeseriesflattener: A Python package for summarizing features from (medical) time series. <i>Journal of Open Source Software</i> , 2023, 8, 5197.	2.0	1
3325	The NUTRIC Score as a Tool to Predict Mortality and Increased Resource Utilization in Intensive Care Patients with Sepsis. <i>Nutrients</i> , 2023, 15, 1648.	1.7	1

#	ARTICLE	IF	CITATIONS
3326	An enhanced random forest approach using CoClust clustering: MIMIC-III and SMS spam collection application. <i>Journal of Big Data</i> , 2023, 10, .	6.9	2
3328	Artificial intelligence for clinical decision support for monitoring patients in cardiovascular ICUs: A systematic review. <i>Frontiers in Medicine</i> , 0, 10, .	1.2	7
3329	A Multi-Parameter Fusion Method for Cuffless Continuous Blood Pressure Estimation Based on Electrocardiogram and Photoplethysmogram. <i>Micromachines</i> , 2023, 14, 804.	1.4	1
3330	Association of mechanical power and 28-day mortality in patients with severe respiratory failure due to SARS-CoV-2. <i>Medicina Intensiva (English Edition)</i> , 2023, , .	0.1	0
3332	Federated Learning Study using Motion Recognition Model based on Joint Data. <i>The Journal of Korean Institute of Information Technology</i> , 2023, 21, 39-48.	0.1	2
3333	Using language models and ontology topology to perform semantic mapping of traits between biomedical datasets. <i>Bioinformatics</i> , 2023, 39, .	1.8	0
3334	Prognostic Value of the Red Blood Cell Distribution Width-to-Albumin Ratio in Critically Ill Older Patients with Acute Kidney Injury: A Retrospective Database Study. <i>Emergency Medicine International</i> , 2023, 2023, 1-11.	0.3	0
3335	Timing of vasopressin initiation and mortality in patients with septic shock: analysis of the MIMIC-III and MIMIC-IV databases. <i>BMC Infectious Diseases</i> , 2023, 23, .	1.3	5
3336	Significance of platelets in the early warning of new-onset AKI in the ICU by using supervise learning: a retrospective analysis. <i>Renal Failure</i> , 2023, 45, .	0.8	0
3337	Disease Prediction Using Graph Machine Learning Based on Electronic Health Data: A Review of Approaches and Trends. <i>Healthcare (Switzerland)</i> , 2023, 11, 1031.	1.0	12
3338	Machine learning algorithm to predict mortality in critically ill patients with sepsis-associated acute kidney injury. <i>Scientific Reports</i> , 2023, 13, .	1.6	5
3339	Resolving impact of technical and biological variability on the convolutional neural networks: evaluating chest x-ray scans. , 2023, , .		0
3341	Association between different MAP levels and 30-day mortality in sepsis patients: a propensity-score-matched, retrospective cohort study. <i>BMC Anesthesiology</i> , 2023, 23, .	0.7	0
3342	Estimating treatment effects for time-to-treatment antibiotic stewardship in sepsis. <i>Nature Machine Intelligence</i> , 0, , .	8.3	2
3343	Prediction differences and implications of acute kidney injury with and without urine output criteria in adult critically ill patients. <i>Nephrology Dialysis Transplantation</i> , 2023, 38, 2368-2378.	0.4	1
3344	Associations of continuous anionic gap detection with the mortality in critically ill patients receiving renal replacement therapy. <i>International Urology and Nephrology</i> , 0, , .	0.6	0
3345	Norepinephrine combined with phenylephrine versus norepinephrine in patients with septic shock: a retrospective cohort study. <i>BMC Infectious Diseases</i> , 2023, 23, .	1.3	0
3346	Digital Twin in Health Care. , 2023, , 209-231.		1

#	ARTICLE	IF	CITATIONS
3347	Association between postoperative thrombocytopenia and outcomes after traumatic brain injury surgery: A cohort study. <i>Acta Anaesthesiologica Scandinavica</i> , 0, , .	0.7	0
3348	Interpretable Skill Learning for Dynamic Treatment Regimes through Imitation. , 2023, , .		0
3349	Simulating complex patient populations with hierarchical learning effects to support methods development for post-market surveillance. <i>BMC Medical Research Methodology</i> , 2023, 23, .	1.4	0
3350	Natural language processing to identify reasons for sex disparity in statin prescriptions. <i>American Journal of Preventive Cardiology</i> , 2023, 14, 100496.	1.3	1
3351	Association between the volume of fluid resuscitation and mortality modified by disease severity in patients with sepsis in ICU: a retrospective cohort study. <i>BMJ Open</i> , 2023, 13, e066056.	0.8	1
3352	A hybrid system to understand the relations between assessments and plans in progress notes. <i>Journal of Biomedical Informatics</i> , 2023, 141, 104363.	2.5	2
3353	PaCO ₂ Levels at Admission Influence the Prognosis of Sepsis Patients: A Nonlinear Relationship. <i>Journal of Translational Critical Care Medicine</i> , 2023, 5, .	0.0	0
3354	Derivation and validation of a risk score to predict acute kidney injury in critically ill cirrhotic patients. <i>Hepatology Research</i> , 0, , .	1.8	1
3356	Bridging the Gap between Medical Tabular Data and NLP Predictive Models: A Fuzzy-Logic-Based Textualization Approach. <i>Electronics (Switzerland)</i> , 2023, 12, 1848.	1.8	0
3357	Association of estimated glomerular filtration rate and all-cause mortality in acute pancreatitis: a retrospective analysis. <i>BMC Anesthesiology</i> , 2023, 23, .	0.7	0
3358	Predicting respiratory decompensation in mechanically ventilated adult ICU patients. <i>Frontiers in Physiology</i> , 0, 14, .	1.3	0
3359	Machine learning algorithms assist early evaluation of enteral nutrition in ICU patients. <i>Frontiers in Nutrition</i> , 0, 10, .	1.6	4
3360	Hawkes Process via Graph Contrastive Discriminant Representation Learning and Transformer Capturing Long-Term Dependencies. <i>Communications in Computer and Information Science</i> , 2023, , 53-64.	0.4	0
3361	Sequential Gaussian Processes for Online Learning of Nonstationary Functions. <i>IEEE Transactions on Signal Processing</i> , 2023, 71, 1539-1550.	3.2	1
3362	A survey on detecting healthcare concept drift in AI/ML models from a finance perspective. <i>Frontiers in Artificial Intelligence</i> , 0, 5, .	2.0	1
3363	Evaluating robustness of a generalized linear model when applied to electronic health record data accessed using an Open API. <i>Health Informatics Journal</i> , 2023, 29, 146045822311708.	1.1	1
3364	Fluid and Solute Intakes Show Minimal Association With Serum Sodium Levels in a Mixed ICU Population. <i>Cureus</i> , 2023, , .	0.2	0
3366	A Prompt-Based Topic-Modeling Method for Depression Detection on Low-Resource Data. <i>IEEE Transactions on Computational Social Systems</i> , 2024, 11, 1430-1439.	3.2	1

#	ARTICLE	IF	CITATIONS
3367	Continuous Non-Invasive Blood Pressure Measurement Using 60 GHz-Radar—A Feasibility Study. <i>Sensors</i> , 2023, 23, 4111.	2.1	2
3368	Crossing the AI Chasm in Neurocritical Care. <i>Computers</i> , 2023, 12, 83.	2.1	2
3369	Subphenotyping heterogeneous patients with chronic critical illness to guide individualised fluid balance treatment using machine learning: a retrospective cohort study. <i>EClinicalMedicine</i> , 2023, 59, 101970.	3.2	0
3370	Dual-core mutual learning between scoring systems and clinical features for ICU mortality prediction. <i>Information Sciences</i> , 2023, 637, 118984.	4.0	1
3371	Red blood cell distribution width improves the prediction of 28-day mortality for patients with sepsis-induced acute kidney injury: A retrospective analysis from MIMIC-IV database using propensity score matching. <i>Journal of Intensive Medicine</i> , 2023, 3, 275-282.	0.8	1
3372	Impact of obesity on all-cause and cause-specific mortality among critically ill men and women: a cohort study on the eICU database. <i>Frontiers in Nutrition</i> , 0, 10, .	1.6	2
3373	Association of lactate detection with in-hospital mortality in critically ill patients with acute myocardial infarction: a retrospective cohort study. <i>BMJ Open</i> , 2023, 13, e069129.	0.8	1
3374	Weakly supervised spatial relation extraction from radiology reports. <i>JAMIA Open</i> , 2023, 6, .	1.0	2
3375	Few-Shot Learning for Clinical Natural Language Processing Using Siamese Neural Networks: Algorithm Development and Validation Study. , 0, 2, e44293.		4
3379	Vertical Federated Knowledge Transfer via Representation Distillation for Healthcare Collaboration Networks. , 2023, , .		1
3381	GDPR and FAIR Compliant Decision Support System Design for Triage and Disease Detection. <i>Advances in Intelligent Systems and Computing</i> , 2023, , 331-338.	0.5	0
3400	Analysis of Non-imaging Data. , 2023, , 183-200.		0
3408	Personalized Medicine with Advanced Analytics. , 2023, , 289-320.		1
3416	Adversarial Learning for Improved Patient Representations. <i>Lecture Notes in Computer Science</i> , 2023, , 467-476.	1.0	0
3419	Semantically Rich Differential Access to Secure Cloud EHR. , 2023, , .		0
3430	Word Sense Disambiguation in the Biomedical Domain: Short Literature Review. <i>Lecture Notes in Networks and Systems</i> , 2023, , 258-271.	0.5	0
3432	Autoencoder-Based Prediction of ICU Clinical Codes. <i>Lecture Notes in Computer Science</i> , 2023, , 57-62.	1.0	0
3433	Survival Hierarchical Agglomerative Clustering: A Semi-Supervised Clustering Method Incorporating Survival Data. <i>Lecture Notes in Computer Science</i> , 2023, , 3-12.	1.0	0

#	ARTICLE	IF	CITATIONS
3444	A Study on Various Approaches Towards Non-Factoid Question Answering Systems. , 2023, , .		0
3452	Improving Fairness in AI Models on Electronic Health Records: The Case for Federated Learning Methods. , 2023, , .		2
3455	Big Data Analytics in Healthcare. Translational Systems Sciences, 2023, , 27-70.	0.2	8
3459	Effective Information Retrieval, Question Answering and Abstractive Summarization on Large-Scale Biomedical Document Corpora. Lecture Notes in Computer Science, 2023, , 404-415.	1.0	0
3463	Editorial: Information extraction for health documents. Frontiers in Artificial Intelligence, 0, 6, .	2.0	0
3486	A Review of Deep Learning Methods for Automated Clinical Coding. , 2023, , .		0
3488	IR-ECG: Invertible Reconstruction of ECG. , 2023, , .		0
3489	Study on the tolerance of motion artifacts in estimating variance of blood pressure by single PPG. AIP Conference Proceedings, 2023, , .	0.3	0
3490	MHLAT: Multi-Hop Label-Wise Attention Model for Automatic ICD Coding. , 2023, , .		1
3500	Datasets for Medical Sentiment Analysis. , 2023, , 37-42.		0
3503	DKFM: Dual Knowledge-Guided Fusion Model for Drug Recommendation. Lecture Notes in Computer Science, 2023, , 192-203.	1.0	0
3505	HTPS: Heterogeneous Transferring Prediction System for Healthcare Datasets. , 2023, , .		2
3508	Ontology-Based Reasoning to Classify Behaviors Associated with Chronic Disease Risk Factors. , 2023, , .		0
3512	Algorithmic fairness in artificial intelligence for medicine and healthcare. Nature Biomedical Engineering, 2023, 7, 719-742.	11.6	35
3518	Multiple Feature Extraction Based on PPG Signal to Realize Blood Pressure Measurement of Composite Multi-channel Convolutional Neural Network Model. , 2023, , .		0
3523	An Interactive Web Solution for Electronic Health Records Segmentation and Prediction. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2023, , 79-91.	0.2	0
3531	PsyBERTpt: A Clinical Entity Recognition Model for Psychiatric Narratives. , 2023, , .		0
3532	Early prediction of the risk of ICU mortality with Deep Federated Learning. , 2023, , .		3

#	ARTICLE	IF	CITATIONS
3533	Effect of incorporating metadata to the generation of synthetic time series in a healthcare context. , 2023, , .		1
3534	Automatic ICD-10 Code Association: A Challenging Task on French Clinical Texts. , 2023, , .		0
3542	Hierarchical Global Pointer Network: An Implicit Relation Inference Method for Gene-Disease Knowledge Discovery. Communications in Computer and Information Science, 2023, , 14-28.	0.4	0
3548	Predictive Alarm Prevention by Forecasting Threshold Alarms at the Intensive Care Unit. Communications in Computer and Information Science, 2023, , 215-236.	0.4	0
3555	Decision Support System for Chronic Diseases Based on Drug-Drug Interactions. , 2023, , .		0
3559	A Deep Learning Approach Incorporating Data Missing Mechanism in Predicting Acute Kidney Injury in ICU. Lecture Notes in Computer Science, 2023, , 335-346.	1.0	0
3560	The shaky foundations of large language models and foundation models for electronic health records. Npj Digital Medicine, 2023, 6, .	5.7	25
3561	Patient Mortality Prediction Based on Two-Layer Attention Neural Network. Lecture Notes in Computer Science, 2023, , 233-245.	1.0	0
3566	MedLens: Improve Mortality Prediction Via Medical Signs Selecting and Regression. , 2023, , .		3
3567	Navigating Alignment for Non-identical Client Class Sets: A Label Name-Anchored Federated Learning Framework. , 2023, , .		1
3573	An Evaluation Metric for Prediction Stability with Imprecise Data. Lecture Notes in Computer Science, 2023, , 430-441.	1.0	0
3585	An Information Extraction Study: Take in Mind the Tokenization!. Lecture Notes in Computer Science, 2023, , 593-606.	1.0	0
3589	Deep Learning Models for Automatic De-identification of Clinical Text. IFIP Advances in Information and Communication Technology, 2023, , 116-127.	0.5	0
3591	Transfer Learning Improves Unsupervised Assignment of ICD codes with Clinical Notes. , 2023, , .		0
3592	CNN_SVM-based myocardial infarction disease prediction. , 2023, , .		0
3593	Policy Integrated Blockchain to Automate HIPAA Part 2 Compliance. , 2023, , .		0
3595	Iterative Partial Fulfillment of Counterfactual Explanations: Benefits and Risks. , 2023, , .		0
3597	Stress-Testing Bias Mitigation Algorithms to Understand Fairness Vulnerabilities. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
3598	Mixup Training for Generative Models to Defend Membership Inference Attacks. , 2023, , .		0
3600	CONSchema: Schema Matching with Semantics and Constraints. Communications in Computer and Information Science, 2023, , 231-241.	0.4	0
3610	Prediction of ICU Readmission Using LightGBM Classifier. , 2023, , .		0
3618	Automated Medical Coding on MIMIC-III and MIMIC-IV: A Critical Review and Replicability Study. , 2023, , .		2
3637	Deep Imputation-Prediction Networks for Health Risk Prediction using Electronic Health Records. , 2023, , .		0
3652	Stacked Attention-based Networks for Accurate and Interpretable Health Risk Prediction. , 2023, , .		0
3653	Prediction of Length-of-stay at Intensive Care Unit (ICU) Using Machine Learning based on MIMIC-III Database. , 2023, , .		3
3654	NeuralHMM: A Deep Markov Network for Health Risk Prediction using Electronic Health Records. , 2023, , .		0
3657	SigD: A Cross-Session Dataset for PPG-based User Authentication in Different Demographic Groups. , 2023, , .		1
3658	PyHealth: A Deep Learning Toolkit for Healthcare Applications. , 2023, , .		1
3665	DynaShare: Task and Instance Conditioned Parameter Sharing for Multi-Task Learning. , 2023, , .		0
3667	Analyzing the Impact of Tokenization on Multilingual Epidemic Surveillance in Low-Resource Languages. Lecture Notes in Computer Science, 2023, , 17-32.	1.0	0
3669	Uncovering the Missing Pattern: Unified Framework Towards Trajectory Imputation and Prediction. , 2023, , .		3
3670	Visual Language Pretrained Multiple Instance Zero-Shot Transfer for Histopathology Images. , 2023, , .		10
3673	Auditing Algorithmic Fairness in Machine Learning for Health with Severity-Based LOGAN. Studies in Computational Intelligence, 2023, , 123-136.	0.7	3
3678	Flexible Classification, Question-Answering and Retrieval with Siamese Neural Networks for Biomedical Texts. Lecture Notes in Computer Science, 2023, , 27-38.	1.0	0
3681	Recommended resources. , 2024, , 473-480.		0
3682	Artificial intelligence in cardiac critical care. , 2024, , 303-307.		0

#	ARTICLE	IF	CITATIONS
3684	Trans-ARPG: Automated ICD Coding method based on Adversarial Reinforcement Path Generation and Transformer mechanism. , 2023, , .		0
3686	Natural Language Processing for Drug Discovery Knowledge Graphs: Promises and Pitfalls. Methods in Molecular Biology, 2024, , 223-240.	0.4	0
3691	Artificial intelligence in critical care. , 2024, , 137-143.		0
3693	Contrastive Learning-Based Imputation-Prediction Networks for In-hospital Mortality Risk Modeling Using EHRs. Lecture Notes in Computer Science, 2023, , 428-443.	1.0	0
3697	Clustering Analysis of Patients Kdigo Scoring Time Series Data Based on DTW Algorithm. , 2023, , .		0
3698	CPK-Adapter: Infusing Medical Knowledge into K-Adapter with Continuous Prompt. , 2023, , .		0
3703	Electronic Medical Record Recommendation System Based on Deep Embedding Learning with Named Entity Recognition. Lecture Notes in Computer Science, 2023, , 298-309.	1.0	0
3714	Using Monte Carlo simulated PPGs signals to train a deep learning model to predict hemoglobin levels. , 2023, , .		0
3720	Understanding Silent Failures in Medical Image Classification. Lecture Notes in Computer Science, 2023, , 400-410.	1.0	2
3721	MedIM: Boost Medical Image Representation via Radiology Report-Guided Masking. Lecture Notes in Computer Science, 2023, , 13-23.	1.0	0
3722	Hierarchical Vision Transformers for Disease Progression Detection in Chest X-Ray Images. Lecture Notes in Computer Science, 2023, , 685-695.	1.0	1
3723	TPRO: Text-Prompting-Based Weakly Supervised Histopathology Tissue Segmentation. Lecture Notes in Computer Science, 2023, , 109-118.	1.0	0
3725	Machine learning for mortality risk prediction with changing patient demographics. , 2023, , .		0
3731	Workflow Characterization of Big Data System Model for Healthcare Through Multiformalism. Lecture Notes in Computer Science, 2023, , 279-293.	1.0	0
3735	Exploring Label Correlations for Quantification of ICD Codes. Lecture Notes in Computer Science, 2023, , 614-627.	1.0	0
3736	Semantic Enrichment of Explanations of AI Models for Healthcare. Lecture Notes in Computer Science, 2023, , 216-229.	1.0	0
3737	A Data-Driven Approach for Stylolite Detection. , 2023, , .		0
3748	Understanding the Clinical Context of Medication Change Events in Clinical Narratives using Pre-trained Clinical Language Models. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
3754	Knowledge mapping and research hotspots of artificial intelligence on ICU and Anesthesia: from a global bibliometric perspective. , 2023, 1, .		0
3755	Mobile E-Health On-Demand Knowledge Sharing with Copyright Protection: Joint Blockchain and NFT Approach. , 2023, , .		0
3759	Prescription Recommendation based on Intention Retrieval Network and Multimodal Medical Indicator. , 2023, , .		0
3760	New Siamese Neural Networks forÂText Classification andÂOntologies Alignment. Lecture Notes in Computer Science, 2023, , 16-29.	1.0	0
3761	Quality Control, Data Cleaning, Imputation. , 2023, , 7-36.		0
3767	Causal inference using observational intensive care unit data: a scoping review and recommendations for future practice. Npj Digital Medicine, 2023, 6, .	5.7	0
3768	Artificial Intelligence in medicine. AI Critique, 2023, , 155-178.	0.2	0
3773	Natural Language Processing andÂText Mining (Turning Unstructured Data intoÂStructured). , 2023, , 69-93.		0
3776	LGFat-RGCN: Faster Attention with Heterogeneous RGCN for Medical ICD Coding Generation. , 2023, , .		0
3780	Device Agnostic Measurement of Blood Pressure From RPPG Signals. , 2023, , .		0
3781	Soft Prompt Transfer forÂZero-Shot andÂFew-Shot Learning inÂEHR Understanding. Lecture Notes in Computer Science, 2023, , 18-32.	1.0	0
3782	Leveraging patient similarities via graph neural networks to predict phenotypes from temporal data. , 2023, , .		0
3793	Interpretable Disease Prediction from Clinical Text by Leveraging Pattern Disentanglement. , 2023, , .		0
3794	SiaKey: A Method for Improving Few-shot Learning with Clinical Domain Information. , 2023, , .		0
3795	Towards Accurate and Clinically Meaningful Summarization of Electronic Health Record Notes: A Guided Approach. , 2023, , .		0
3796	ArterialNet: Arterial Blood Pressure Reconstruction. , 2023, , .		0
3802	Discovering Drug-Drug Interactions Using Association Rule Mining from Electronic Health Records. , 2023, , .		0
3805	MIMIC III Text classification with the generalization of BERT transformer model synergized with XGBoost classifier. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
3806	Exploring Horizontal Scaling Solutions to Enhance CryptDB Performance under High Concurrency on AWS. , 2023, , .		0
3813	Debiasing Medication Recommendation with Counterfactual Analysis. Communications in Computer and Information Science, 2024, , 426-438.	0.4	0
3815	Extracting Drug Names from Medical Reports. , 2023, , .		0
3818	A Systematic Approach Focused on Machine Learning Models for Exploring the Landscape of Physiological Measurement and Estimation Using Photoplethysmography (PPG). Journal of Cardiovascular Translational Research, 0, , .	1.1	1
3823	Representation Learning for Person or Entity-Centric Knowledge Graphs: An Application in Healthcare. , 2023, , .		0
3827	Adaptive Learning and AI to Support Medication Management. , 2023, , .		0
3834	A Multi-modal Teacher-student Framework for Improved Blood Pressure Estimation. , 2023, , .		0
3835	Early Prediction of Neonatal Sepsis From Synthetic Clinical Data Using Machine Learning. , 2023, , .		0
3837	Annotate French Clinical Data Using Large Language Model Predictions. , 2023, , .		0
3838	Clinical Risk Prediction Models with Meta-Learning Prototypes of Patient Heterogeneity. , 2023, , .		0
3839	Demographic Information Fusion Using Attentive Pooling In CNN-GRU Model For Systolic Blood Pressure Estimation. , 2023, , .		0
3840	Continual Learning for Cuffless Blood Pressure Measurement using PPG and ECG Signals. , 2023, , .		0
3841	Sample Size Determination for Electronic Phenotyping. , 2023, , .		0
3842	PheME: A deep ensemble framework for improving phenotype prediction from multi-modal data. , 2023, , .		0
3843	Identifying Major Depressive Disorder From Clinical Notes Using Neural Language Models with Distant Supervision. , 2023, , .		0
3854	Predicting Real-time, Recurrent Adverse Invasive Ventilation from Clinical Data Streams. , 2023, , .		0
3856	Auditing ICU Readmission Rates in an Clinical Database: An Analysis of Risk Factors and Clinical Outcomes. , 2023, , .		0
3857	Unlocking the Power of EHRs: Harnessing Unstructured Data for Machine Learning-based Outcome Predictions. , 2023, , .		1

#	ARTICLE	IF	CITATIONS
3858	Trace Augmentation with Missing EHRs for Sepsis Treatments. , 2023, , .		0
3865	Leveraging TFR-BERT for ICD Diagnoses Ranking. Lecture Notes in Computer Science, 2023, , 311-322.	1.0	0
3877	MedCT-BERT: Multimodal Mortality Prediction using Medical ConvTransformer-BERT Model. , 2023, , .		0
3881	Combining Reverse Temporal Attention Mechanism and Dynamic Similarity Analysis for Disease Prediction. , 2023, , .		0
3892	Speeding up LIME using Attention Weights. , 2024, , .		0
3904	Optimizing Embedding Space with Sub-categorical Supervised Pre-training: A Theoretical Approach Towards Improving Sepsis Prediction. , 2023, , .		0
3905	Learning Representations from Medical Text for Effective Diagnoses and Knowledge Discovery. , 2023, , .		0
3906	Application of Synthetic Datasets across Courses in Health Informatics Education. , 2023, , .		0
3911	A Contrastive Learning-Based Interpretable Prediction Model for Patients with Heart Failure. Communications in Computer and Information Science, 2024, , 288-299.	0.4	0
3913	Sepsis Detection Using Features Extracted from Photoplethysmography. IFMBE Proceedings, 2024, , 636-646.	0.2	0
3915	ChatGPT and Beyond: An overview of the growing field of large language models and their use in ophthalmology. Eye, 0, , .	1.1	0
3924	Synergizing Reinforcement Learning for Cognitive Medical Decision-Making in Sepsis Detection. Communications in Computer and Information Science, 2024, , 160-171.	0.4	0
3931	Effect of Photoplethysmogram Signal Preprocessing on Predicting Blood Pressure by Deep Learning. , 2023, , .		0
3940	LIMITR: Leveraging Local Information for Medical Image-Text Representation. , 2023, , .		0
3941	The effects of gender bias in word embeddings on patient phenotyping in the mental health domain. , 2023, , .		0
3942	BoMD: Bag of Multi-label Descriptors for Noisy Chest X-ray Classification. , 2023, , .		0
3943	A critical moment in machine learning in medicine: on reproducible and interpretable learning. Acta Neurochirurgica, 2024, 166, .	0.9	0
3944	RuCIL: Enabling Privacy-Enhanced Edge Computing for Federated Learning. Lecture Notes in Computer Science, 2024, , 24-36.	1.0	0

#	ARTICLE	IF	CITATIONS
3945	Patient Similarity using Electronic Health Records and Self-supervised Learning. , 2023, , .		0
3948	ParaMET: A Parallel Framework for Efficient Medical Data Extraction on Tianhe-NG Supercomputer. , 2023, , .		0
3949	Detecting Rises in SBP from PPG for Identifying Autonomic Dysreflexia. , 2023, , .		0
3950	CARE-30: A Causally Driven Multi-Modal Model for Enhanced 30-Day ICU Readmission Predictions. , 2023, , .		0
3951	MKFN: Multimodal Knowledge Fusion Network for Automatic ICD Coding. , 2023, , .		0
3953	Unsupervised extraction, classification and visualization of clinical note segments using the MIMIC-III dataset. , 2023, , .		0
3954	Bridging the Gap: Cross-modal Knowledge Driven Network for Radiology Report Generation. , 2023, , .		0
3955	Knowledge-Enhanced Difference-Aware Clinical Time Series Representation Learning for Diagnosis Prediction. , 2023, , .		0
3956	Parsing Clinical Trial Eligibility Criteria for Cohort Query by a Multi-Input Multi-Output Sequence Labeling Model. , 2023, , .		0
3957	Advancing Precision Medicine: Treatment Regimen Recommendations via Siamese Neural Networks. , 2023, , .		0
3958	Blood Pressure Estimation from Single Photoplethysmogram via Multi-modal Data Generation and Feature Fusion using Deep Learning. , 2023, , .		0
3959	DE-AGE Confounder Based Causal Representation Learning for Cuffless Blood Pressure Estimation. , 2023, , .		0
3960	A Collaborative Cross-Attention Drug Recommendation Model Based on Patient and Medical Relationship Representations. , 2023, , .		0
3961	DILM-ICD: A Deep Iterative Learning Model for Automatic ICD Coding. , 2023, , .		0
3962	Multi-Visit Interactive Recalibration Network for Drug Recommendation with a Triple Graph Encoder. , 2023, , .		0
3963	HeartInsightify: Interpreting Longitudinal Heart Rate Data for Health Insights through Conformal Clustering. , 2023, , .		0
3964	Conservative Q-Learning for Mechanical Ventilation Treatment Using Diagnose Transformer-Encoder. , 2023, , .		0
3965	TetraCVD: A Temporal-Textual Transformer based Model for Cardiovascular Disease Diagnosis. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
3966	E-HMFNet: A Knowledge-Enhanced Hierarchical Molecular Representation Fusion Network for Drug Recommendation. , 2023, , .		0
3968	Named Entity Recognition in Italian Lung Cancer Clinical Reports using Transformers. , 2023, , .		0
3969	Enhancing Clinical Outcome Predictions through Auxiliary Loss and Sentence-Level Self-Attention. , 2023, , .		0
3971	Using annotation for computerized support for fast skimming of cardiology electronic health record notes. , 2023, , .		0
3973	Natural language processing in oncology. , 2024, , 137-161.		0
3976	Tripletformer for Probabilistic Interpolation of Irregularly sampled Time Series. , 2023, , .		0
3977	Graph Encoding-Enhanced Transformer for Drug Recommendation. , 2023, , .		0
3980	Exploring the Value of Pre-trained Language Models for Clinical Named Entity Recognition. , 2023, , .		0
3981	Comparison of MIMIC-III and MIMIC-IV for big data analytics of health informatics. , 2023, , .		0
3983	Prediction of coronary heart disease risk based on multimodal EHRs. , 2023, , .		0
3990	Zero-Shot Medical Information Retrieval via Knowledge Graph Embedding. Communications in Computer and Information Science, 2024, , 29-40.	0.4	0
3994	FGRL-Net: Fine-Grained Personalized Patient Representation Learning for Clinical Risk Prediction Based on EHRs. , 2023, , .		0
3999	Context-Aware Clinical Diagnosis Prediction via Hierarchical Ontology Representation. , 2023, , .		0
4004	MuST: Multimodal Spatiotemporal Graph-Transformer for Hospital Readmission Prediction. Lecture Notes in Computer Science, 2023, , 276-285.	1.0	0
4007	Data Quality Aware Hierarchical Federated Reinforcement Learning Framework for Dynamic Treatment Regimes. , 2023, , .		0
4008	A Counterfactual Fair Model for Longitudinal Electronic Health Records via Deconfounder. , 2023, , .		0
4009	Enhancing Personalized Healthcare via Capturing Disease Severity, Interaction, and Progression. , 2023, , .		0
4011	Counterfactual Explanations for Time Series Forecasting. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
4013	Deep Attention Q-Network for Personalized Treatment Recommendation. , 2023, , .		0
4024	Towards Explainability in Automated Medical Code Prediction from Clinical Records. Lecture Notes in Networks and Systems, 2024, , 593-637.	0.5	0
4030	Multiple Convolutional Neural Networks with Stratified K Fold Strategy for ICD Code Classification. , 2023, , .		0
4040	A Systematic Review of NLP Applications in Clinical Healthcare: Advancement and Challenges. Lecture Notes in Networks and Systems, 2024, , 31-44.	0.5	0
4043	Predicting Timing of Starting Continuous Renal Replacement Therapy for Critically Ill Patients with Acute Kidney Injury Using LSTM Network Model. IFMBE Proceedings, 2024, , 309-316.	0.2	0
4044	A Machine Learning Approach for Predicting the Time Point of Achieving a Negative Fluid Balance in Patients with Acute Respiratory Distress Syndrome. IFMBE Proceedings, 2024, , 284-290.	0.2	0
4045	Implementation of the Time Series and the Convolutional Vision Transformers for Biological Signal Processing - Blood Pressure Estimation from Photoplethysmogram. Communications in Computer and Information Science, 2024, , 46-58.	0.4	0
4046	Managing and Monitoring Patient's Healthcare Using AI and IoT Technologies. Advances in Medical Diagnosis, Treatment, and Care, 2024, , 1-23.	0.1	0
4062	Domain Specific Transformers-Based Prioritization of Re-admission for Patients in Healthcare. , 2023, , .		0
4063	Privacy in Generative Models: Attacks and Defense Mechanisms. , 2024, , 65-89.		0