

Moving beyond regression techniques in cardiovascular learning to address analytic challenges

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Citation Report

#	ARTICLE	IF	CITATIONS
1	The future of artificial intelligence and interpretative specialization in clinical biochemistry. <i>Clinical Biochemistry</i> , 2017, 50, 253-254.	0.8	3
2	Machine learning for epigenetics and future medical applications. <i>Epigenetics</i> , 2017, 12, 505-514.	1.3	91
3	Enabling Precision Cardiology Through Multiscale Biology and Systems Medicine. <i>JACC Basic To Translational Science</i> , 2017, 2, 311-327.	1.9	61
4	Using Machine Learning to Define the Association between Cardiorespiratory Fitness and All-Cause Mortality (from the Henry Ford Exercise Testing Project). <i>American Journal of Cardiology</i> , 2017, 120, 2078-2084.	0.7	22
5	Genotype-driven identification of a molecular network predictive of advanced coronary calcium in ClinSeq [®] and Framingham Heart Study cohorts. <i>BMC Systems Biology</i> , 2017, 11, 99.	3.0	20
6	Maternal exposure to ambient PM10 during pregnancy increases the risk of congenital heart defects: Evidence from machine learning models. <i>Science of the Total Environment</i> , 2018, 630, 1-10.	3.9	50
7	Prediction models for the risk of spontaneous preterm birth based on maternal characteristics: a systematic review and independent external validation. <i>Acta Obstetrica Et Gynecologica Scandinavica</i> , 2018, 97, 907-920.	1.3	54
8	Machine learning and medicine: book review and commentary. <i>BioMedical Engineering OnLine</i> , 2018, 17, 17.	1.3	17
9	â€A new staging system for cardiac transthyretin amyloidosisâ€™: is it already on the verge of obsolescence?. <i>European Heart Journal</i> , 2018, 39, 2807-2809.	1.0	6
10	Derivation and validation of different machine-learning models in mortality prediction of trauma in motorcycle riders: a cross-sectional retrospective study in southern Taiwan. <i>BMJ Open</i> , 2018, 8, e018252.	0.8	21
11	Predicting the development of in-hospital cardiogenic shock in patients with ST-segment elevation myocardial infarction treated by primary percutaneous coronary intervention: the ORBI risk score. <i>European Heart Journal</i> , 2018, 39, 2090-2102.	1.0	66
12	Predicting deterioration of ventricular function in patients with repaired tetralogy of Fallot using machine learning. <i>European Heart Journal Cardiovascular Imaging</i> , 2018, 19, 730-738.	0.5	47
13	Machine learning in laboratory medicine: waiting for the flood?. <i>Clinical Chemistry and Laboratory Medicine</i> , 2018, 56, 516-524.	1.4	70
14	Risk Stratification for Major Postoperative Complications in Patients Undergoing Intra-abdominal General Surgery Using Latent Class Analysis. <i>Anesthesia and Analgesia</i> , 2018, 126, 848-857.	1.1	13
15	Mortality prediction in patients with isolated moderate and severe traumatic brain injury using machine learning models. <i>PLoS ONE</i> , 2018, 13, e0207192.	1.1	71
16	Machine learning assessment of myocardial ischemia using angiography: Development and retrospective validation. <i>PLoS Medicine</i> , 2018, 15, e1002693.	3.9	34
17	Prediction models for the incidence and progression of periodontitis: A systematic review. <i>Journal of Clinical Periodontology</i> , 2018, 45, 1408-1420.	2.3	28
18	Device-measured physical activity data for classification of patients with ventricular arrhythmia events: A pilot investigation. <i>PLoS ONE</i> , 2018, 13, e0206153.	1.1	10

#	ARTICLE	IF	CITATIONS
19	A Machine Learning Pipeline to Optimally Utilize Limited Samples in Predictive Modeling. , 2018, , .		0
20	Diagnosis of cardiac amyloidosis: a systematic review on the role of imaging and biomarkers. BMC Cardiovascular Disorders, 2018, 18, 221.	0.7	80
21	A comparative study of logistic regression based machine learning techniques for prediction of early virological suppression in antiretroviral initiating HIV patients. BMC Medical Informatics and Decision Making, 2018, 18, 77.	1.5	35
22	Supervised Machine-learning Predictive Analytics for Prediction of Postinduction Hypotension. Anesthesiology, 2018, 129, 675-688.	1.3	148
23	Precision Medicine and Personalized Medicine in Cardiovascular Disease. Advances in Experimental Medicine and Biology, 2018, 1065, 589-605.	0.8	46
24	<scp>eD</scp>ctor: machine learning and the future of medicine. Journal of Internal Medicine, 2018, 284, 603-619.	2.7	400
27	Machine Learning Is No Magic. JACC: Cardiovascular Interventions, 2019, 12, 1339-1341.	1.1	4
28	Identification of clinically relevant features in hypertensive patients using penalized regression: a case study of cardiovascular events. Medical and Biological Engineering and Computing, 2019, 57, 2011-2026.	1.6	5
29	Machine learning to predict cardiovascular risk. International Journal of Clinical Practice, 2019, 73, e13389.	0.8	51
30	Using machine learning to predict one-year cardiovascular events in patients with severe dilated cardiomyopathy. European Journal of Radiology, 2019, 117, 178-183.	1.2	25
31	Regularized logistic regression for obstructive sleep apnea screening during wakefulness using daytime tracheal breathing sounds and anthropometric information. Medical and Biological Engineering and Computing, 2019, 57, 2641-2655.	1.6	5
32	A machine learning approach for the prediction of pulmonary hypertension. PLoS ONE, 2019, 14, e0224453.	1.1	49
33	Gender differences in the diagnostic performance of machine learning coronary CT angiography-derived fractional flow reserve -results from the MACHINE registry. European Journal of Radiology, 2019, 119, 108657.	1.2	19
34	Comparison of Machine Learning Techniques for Prediction of Hospitalization in Heart Failure Patients. Journal of Clinical Medicine, 2019, 8, 1298.	1.0	35
35	Development and verification of prediction models for preventing cardiovascular diseases. PLoS ONE, 2019, 14, e0222809.	1.1	18
36	Refining the management of acute coronary and aortic syndromes. European Heart Journal, 2019, 40, 1893-1897.	1.0	0
37	Machine Learning Models of Survival Prediction in Trauma Patients. Journal of Clinical Medicine, 2019, 8, 799.	1.0	32
38	Identifying genetic determinants of complex phenotypes from whole genome sequence data. BMC Genomics, 2019, 20, 470.	1.2	6

#	ARTICLE	IF	CITATIONS
40	Prediction of coronary thin-cap fibroatheroma by intravascular ultrasound-based machine learning. <i>Atherosclerosis</i> , 2019, 288, 168-174.	0.4	16
41	A Special Report on Changing Trends in Preventive Stroke/Cardiovascular Risk Assessment Via B-Mode Ultrasonography. <i>Current Atherosclerosis Reports</i> , 2019, 21, 25.	2.0	33
42	A systematic review shows no performance benefit of machine learning over logistic regression for clinical prediction models. <i>Journal of Clinical Epidemiology</i> , 2019, 110, 12-22.	2.4	992
43	Development of an intelligent decision support system for ischemic stroke risk assessment in a population-based electronic health record database. <i>PLoS ONE</i> , 2019, 14, e0213007.	1.1	22
44	Automation and artificial intelligence in the clinical laboratory. <i>Critical Reviews in Clinical Laboratory Sciences</i> , 2019, 56, 98-110.	2.7	54
45	Multivariate Sequential Analytics for Treatment Trajectory Forecasting. , 2019, , .		0
46	Cardiovascular Risk Prediction Models. , 2019, , .		2
47	Angiographyâ€Based Machine Learning for Predicting Fractional Flow Reserve in Intermediate Coronary Artery Lesions. <i>Journal of the American Heart Association</i> , 2019, 8, e011685.	1.6	49
48	Artificial Intelligence and Data Mining Methods for Cardiovascular Risk Prediction. <i>Series in Bioengineering</i> , 2019, , 279-301.	0.3	18
49	RNA-sequencing reveals that STRN, ZNF484 and WNK1 add to the value of mitochondrial MT-COI and COX10 as markers of unstable coronary artery disease. <i>PLoS ONE</i> , 2019, 14, e0225621.	1.1	5
50	Prediction of postoperative pulmonary complications. <i>Current Opinion in Anaesthesiology</i> , 2019, 32, 443-451.	0.9	41
51	Big Dreams With Big Data! Use of Clinical Informatics to Inform Biomarker Discovery. <i>Clinical and Translational Gastroenterology</i> , 2019, 10, e00018.	1.3	7
52	Development and validation of prediction models for hypertension risks in rural Chinese populations. <i>Journal of Global Health</i> , 2019, 9, 020601.	1.2	16
54	Evaluating Cost-Effectiveness Models for Pharmacologic Interventions in Adults with Heart Failure: A Systematic Literature Review. <i>Pharmacoeconomics</i> , 2019, 37, 359-389.	1.7	24
55	A comparative study of pattern recognition algorithms for predicting the inpatient mortality risk using routine laboratory measurements. <i>Artificial Intelligence Review</i> , 2019, 52, 2559-2573.	9.7	5
56	Enabling individualised health in learning healthcare systems. <i>BMJ Evidence-Based Medicine</i> , 2020, 25, 125-129.	1.7	12
57	Machine learning based risk prediction model for asymptomatic individuals who underwent coronary artery calcium score: Comparison with traditional risk prediction approaches. <i>Journal of Cardiovascular Computed Tomography</i> , 2020, 14, 168-176.	0.7	23
58	Prediction of pulmonary pressure after Glenn shunts by computed tomographyâ€based machine learning models. <i>European Radiology</i> , 2020, 30, 1369-1377.	2.3	9

#	ARTICLE	IF	CITATIONS
59	Developing an individualized risk calculator for psychopathology among young people victimized during childhood: A population-representative cohort study. <i>Journal of Affective Disorders</i> , 2020, 262, 90-98.	2.0	35
60	Machine learning for prediction of septic shock at initial triage in emergency department. <i>Journal of Critical Care</i> , 2020, 55, 163-170.	1.0	51
62	Machine learning methods are comparable to logistic regression techniques in predicting severe walking limitation following total knee arthroplasty. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2020, 28, 3207-3216.	2.3	34
63	Leveraging Electronic Health Records and Machine Learning to Tailor Nursing Care for Patients at High Risk for Readmissions. <i>Journal of Nursing Care Quality</i> , 2020, 35, 27-33.	0.5	19
64	Site specific prediction of PCI stenting based on imaging and biomechanics data using gradient boosting tree ensembles. , 2020, 2020, 2812-2815.		0
65	Predicting Lipid-Lowering Medication Persistence after the First Cardiovascular Disease Hospitalization. <i>Methods of Information in Medicine</i> , 2020, 59, 061-074.	0.7	2
66	Comparison of predictive models for hospital readmission of heart failure patients with cost-sensitive approach. <i>International Journal of Healthcare Management</i> , 2021, 14, 1536-1541.	1.2	4
67	Predicting the Risk of Adverse Events in Pregnant Women With Congenital Heart Disease. <i>Journal of the American Heart Association</i> , 2020, 9, e016371.	1.6	24
68	Role of Post-Stent Physiological Assessment in a Risk Prediction Model After Coronary Stent Implantation. <i>JACC: Cardiovascular Interventions</i> , 2020, 13, 1639-1650.	1.1	36
69	Classification, Categorization, and Algorithms for Articular Cartilage Defects. <i>Journal of Knee Surgery</i> , 2020, 33, 1069-1077.	0.9	0
70	Machine learning to predict mortality after rehabilitation among patients with severe stroke. <i>Scientific Reports</i> , 2020, 10, 20127.	1.6	48
71	Common methodological issues and suggested solutions in bone research. <i>Osteoporosis and Sarcopenia</i> , 2020, 6, 161-167.	0.7	6
72	Low-Cost Office-Based Cardiovascular Risk Stratification Using Machine Learning and Focused Carotid Ultrasound in an Asian-Indian Cohort. <i>Journal of Medical Systems</i> , 2020, 44, 208.	2.2	18
73	Personalized machine learning approach to predict candidemia in medical wards. <i>Infection</i> , 2020, 48, 749-759.	2.3	17
74	The 21st Annual Feigenbaum Lecture: Beyond Artificial: Echocardiography from Elegant Images to Analytic Intelligence. <i>Journal of the American Society of Echocardiography</i> , 2020, 33, 1163-1171.	1.2	4
75	A comparison of regularized logistic regression and random forest machine learning models for daytime diagnosis of obstructive sleep apnea. <i>Medical and Biological Engineering and Computing</i> , 2020, 58, 2517-2529.	1.6	16
76	Cardiovascular/stroke risk predictive calculators: a comparison between statistical and machine learning models. <i>Cardiovascular Diagnosis and Therapy</i> , 2020, 10, 919-938.	0.7	46
77	Predicting 6-Month Unfavorable Outcome of Acute Ischemic Stroke Using Machine Learning. <i>Frontiers in Neurology</i> , 2020, 11, 539509.	1.1	17

#	ARTICLE	IF	CITATIONS
78	Prediction of Cervical Lymph Node Metastasis Using MRI Radiomics Approach in Papillary Thyroid Carcinoma: A Feasibility Study. <i>Technology in Cancer Research and Treatment</i> , 2020, 19, 153303382096945.	0.8	12
79	Identification of risk factors of 30-day readmission and 180-day in-hospital mortality, and its corresponding relative importance in patients with Ischemic heart disease: a machine learning approach. <i>Expert Review of Pharmacoeconomics and Outcomes Research</i> , 2021, 21, 1043-1048.	0.7	4
80	Prediction of Personal Cardiovascular Risk using Machine Learning for Smartphone Applications. , 2020, , .		4
81	Identification of Potential Type II Diabetes in a Large-Scale Chinese Population Using a Systematic Machine Learning Framework. <i>Journal of Diabetes Research</i> , 2020, 2020, 1-12.	1.0	10
82	An efficient convolutional neural network for coronary heart disease prediction. <i>Expert Systems With Applications</i> , 2020, 159, 113408.	4.4	107
83	Measuring individual benefits of psychiatric treatment using longitudinal binary outcomes: Application to antipsychotic benefits in non-cannabis and cannabis users. <i>Journal of Biopharmaceutical Statistics</i> , 2020, 30, 916-940.	0.4	3
84	Predicting Acute Kidney Injury after Cardiac Surgery by Machine Learning Approaches. <i>Journal of Clinical Medicine</i> , 2020, 9, 1767.	1.0	24
85	Artificial Intelligence in Cardiology: Present and Future. <i>Mayo Clinic Proceedings</i> , 2020, 95, 1015-1039.	1.4	127
86	Value of a Machine Learning Approach for Predicting Clinical Outcomes in Young Patients With Hypertension. <i>Hypertension</i> , 2020, 75, 1271-1278.	1.3	35
87	Logistic regression was as good as machine learning for predicting major chronic diseases. <i>Journal of Clinical Epidemiology</i> , 2020, 122, 56-69.	2.4	245
88	Applying machine learning to detect early stages of cardiac remodelling and dysfunction. <i>European Heart Journal Cardiovascular Imaging</i> , 2021, 22, 1208-1217.	0.5	15
89	The ongoing quest for improving machine learning-based risk stratification. <i>European Heart Journal</i> , 2020, 41, 2914-2915.	1.0	5
90	Identifying the relative importance of predictors of survival in out of hospital cardiac arrest: a machine learning study. <i>Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine</i> , 2020, 28, 60.	1.1	44
91	The impact of deceased donor maintenance on delayed kidney allograft function: A machine learning analysis. <i>PLoS ONE</i> , 2020, 15, e0228597.	1.1	20
92	Machine Learning Framework to Identify Individuals at Risk of Rapid Progression of Coronary Atherosclerosis: From the PARADIGM Registry. <i>Journal of the American Heart Association</i> , 2020, 9, e013958.	1.6	53
93	Development and External Validation of a Deep Learning Algorithm for Prognostication of Cardiovascular Outcomes. <i>Korean Circulation Journal</i> , 2020, 50, 72.	0.7	5
94	Clinical risk prediction with random forests for survival, longitudinal, and multivariate (RF-SLAM) data analysis. <i>BMC Medical Research Methodology</i> , 2020, 20, 1.	1.4	161
95	Framework for improving outcome prediction for acute to chronic low back pain transitions. <i>Pain Reports</i> , 2020, 5, e809.	1.4	21

#	ARTICLE	IF	CITATIONS
96	The Admit-AF risk score: A clinical risk score for predicting hospital admissions in patients with atrial fibrillation. <i>European Journal of Preventive Cardiology</i> , 2021, 28, 624-630.	0.8	3
97	Challenges and Perspectives on Biosensors for Highly Sensitive Quantification of Salivary Troponins: A Review. <i>IEEE Sensors Journal</i> , 2021, 21, 13976-13984.	2.4	8
99	Big data and new information technology: what cardiologists need to know. <i>Revista Espanola De Cardiologia (English Ed)</i> , 2021, 74, 81-89.	0.4	6
100	Multiclass machine learning vs. conventional calculators for stroke/CVD risk assessment using carotid plaque predictors with coronary angiography scores as gold standard: a 500 participants study. <i>International Journal of Cardiovascular Imaging</i> , 2021, 37, 1171-1187.	0.7	41
101	Prediction of response to cardiac resynchronization therapy using a multi-feature learning method. <i>International Journal of Cardiovascular Imaging</i> , 2021, 37, 989-998.	0.7	13
102	Predicting the diagnosis of HIV and sexually transmitted infections among men who have sex with men using machine learning approaches. <i>Journal of Infection</i> , 2021, 82, 48-59.	1.7	29
103	Prediction of atherosclerosis diseases using biosensor-assisted deep learning artificial neuron model. <i>Neural Computing and Applications</i> , 2021, 33, 5257-5266.	3.2	2
104	Body Mass Index Variable Interpolation to Expand the Utility of Real-world Administrative Healthcare Claims Database Analyses. <i>Advances in Therapy</i> , 2021, 38, 1314-1327.	1.3	6
105	A phenotypic risk score for predicting mortality in sickle cell disease. <i>British Journal of Haematology</i> , 2021, 192, 932-941.	1.2	9
107	Introduction to Artificial Intelligence and Machine Learning for Pathology. <i>Archives of Pathology and Laboratory Medicine</i> , 2021, 145, 1228-1254.	1.2	35
108	Machine learning improves early prediction of small-for-gestational-age births and reveals nuchal fold thickness as unexpected predictor. <i>Prenatal Diagnosis</i> , 2021, 41, 505-516.	1.1	6
110	Reviewing the use and quality of machine learning in developing clinical prediction models for cardiovascular disease. <i>Postgraduate Medical Journal</i> , 2022, 98, 551-558.	0.9	9
111	Accurate prediction of birth implementing a statistical model through the determination of steroid hormones in saliva. <i>Scientific Reports</i> , 2021, 11, 5617.	1.6	2
112	Using a machine learning approach to investigate factors associated with treatment-resistant depression among adults with chronic non-cancer pain conditions and major depressive disorder. <i>Current Medical Research and Opinion</i> , 2021, 37, 847-859.	0.9	4
113	Predicting Australian Adults at High Risk of Cardiovascular Disease Mortality Using Standard Risk Factors and Machine Learning. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 3187.	1.2	13
114	A machine learning-based pulmonary venous obstruction prediction model using clinical data and CT image. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2021, 16, 609-617.	1.7	14
115	Model and variable selection using machine learning methods with applications to childhood stunting in Bangladesh. <i>Informatics for Health and Social Care</i> , 2021, 46, 425-442.	1.4	6
117	Application of machine learning in predicting hospital readmissions: a scoping review of the literature. <i>BMC Medical Research Methodology</i> , 2021, 21, 96.	1.4	46

#	ARTICLE	IF	CITATIONS
118	Utilizing electronic health record data to understand comorbidity burden among people living with HIV: a machine learning approach. <i>Aids</i> , 2021, 35, S39-S51.	1.0	11
119	Safe opioid prescribing: a prognostic machine learning approach to predicting 30-day risk after an opioid dispensation in Alberta, Canada. <i>BMJ Open</i> , 2021, 11, e043964.	0.8	6
120	Role of artificial intelligence in cardiovascular risk prediction and outcomes: comparison of machine-learning and conventional statistical approaches for the analysis of carotid ultrasound features and intra-plaque neovascularization. <i>International Journal of Cardiovascular Imaging</i> , 2021, 37, 3145-3156.	0.7	15
121	A Machine Learning Classifier Improves Mortality Prediction Compared With Pediatric Logistic Organ Dysfunction-2 Score: Model Development and Validation. , 2021, 3, e0426.		6
122	Cardiovascular Disease Prediction by Machine Learning Algorithms Based on Cytokines in Kazakhs of China. <i>Clinical Epidemiology</i> , 2021, Volume 13, 417-428.	1.5	26
123	Use of Multiprognostic Index Domain Scores, Clinical Data, and Machine Learning to Improve 12-Month Mortality Risk Prediction in Older Hospitalized Patients: Prospective Cohort Study. <i>Journal of Medical Internet Research</i> , 2021, 23, e26139.	2.1	9
124	Clinical prediction models of fractional flow reserve: an exploration of the current evidence and appraisal of model performance. <i>Quantitative Imaging in Medicine and Surgery</i> , 2021, 11, 2642-2657.	1.1	3
126	Development of a machine learning model to predict the risk of late cardiogenic shock in patients with ST-segment elevation myocardial infarction. <i>Annals of Translational Medicine</i> , 2021, 9, 1162-1162.	0.7	11
127	Clinical Feature-Based Machine Learning Model for 1-Year Mortality Risk Prediction of ST-Segment Elevation Myocardial Infarction in Patients with Hyperuricemia: A Retrospective Study. <i>Computational and Mathematical Methods in Medicine</i> , 2021, 2021, 1-9.	0.7	17
128	Machine learning algorithms for predicting coronary artery disease: efforts toward an open source solution. <i>Future Science OA</i> , 2021, 7, FSO698.	0.9	43
129	Generalizability of heterogeneous treatment effects based on causal forests applied to two randomized clinical trials of intensive glycemic control. <i>Annals of Epidemiology</i> , 2022, 65, 101-108.	0.9	10
130	Deep learning with robustness to missing data: A novel approach to the detection of COVID-19. <i>PLoS ONE</i> , 2021, 16, e0255301.	1.1	3
132	Retrospective validation of a machine learning clinical decision support tool for myocardial infarction risk stratification. <i>Healthcare Technology Letters</i> , 2021, 8, 139-147.	1.9	6
133	Clinical Application of Machine Learning-Based Artificial Intelligence in the Diagnosis, Prediction, and Classification of Cardiovascular Diseases. <i>Circulation Journal</i> , 2021, 85, 1416-1425.	0.7	13
134	Artificial intelligence in the diagnosis and management of arrhythmias. <i>European Heart Journal</i> , 2021, 42, 3904-3916.	1.0	45
135	Towards patient-specific prediction of conduction abnormalities induced by transcatheter aortic valve implantation: a combined mechanistic modelling and machine learning approach. <i>European Heart Journal Digital Health</i> , 2021, 2, 606-615.	0.7	12
136	Nomogram for the Prediction of Intrahospital Mortality Risk of Patients with ST-Segment Elevation Myocardial Infarction Complicated with Hyperuricemia: A Multicenter Retrospective Study. <i>Therapeutics and Clinical Risk Management</i> , 2021, Volume 17, 863-875.	0.9	2
138	Risk Stratification of Early-Stage Cervical Cancer with Intermediate-Risk Factors: Model Development and Validation Based on Machine Learning Algorithm. <i>Oncologist</i> , 2021, 26, e2217-e2226.	1.9	10

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139	Using Machine Learning Algorithms to Predict Hospital Acquired Thrombocytopenia after Operation in the Intensive Care Unit: A Retrospective Cohort Study. <i>Diagnostics</i> , 2021, 11, 1614.	1.3	4
140	Artificial intelligence in nutrition research: perspectives on current and future applications. <i>Applied Physiology, Nutrition and Metabolism</i> , 2022, 47, 1-8.	0.9	16
141	Artificial Intelligence-Assisted Identification of Genetic Factors Predisposing High-Risk Individuals to Asymptomatic Heart Failure. <i>Cells</i> , 2021, 10, 2430.	1.8	7
142	<scp>Noncontrast</scp> Cardiac Magnetic Resonance Imaging Predictors of Heart Failure Hospitalization in Heart Failure With Preserved Ejection Fraction. <i>Journal of Magnetic Resonance Imaging</i> , 2022, 55, 1812-1825.	1.9	7
143	The Use of Machine Learning for the Care of Hypertension and Heart Failure. <i>JACC Asia</i> , 2021, 1, 162-172.	0.5	9
145	Machine Learning on the COVID-19 Pandemic, Human Mobility and Air Quality: A Review. <i>IEEE Access</i> , 2021, 9, 72420-72450.	2.6	44
146	Predicting Non-Alcoholic Fatty Liver Disease for Adults Using Practical Clinical Measures: Evidence from the Multi-ethnic Study of Atherosclerosis. <i>Journal of General Internal Medicine</i> , 2021, 36, 2648-2655.	1.3	6
147	Development of Prediction Models for Acute Myocardial Infarction at Prehospital Stage with Machine Learning Based on a Nationwide Database (Preprint). <i>JMIR Medical Informatics</i> , 0, , .	1.3	0
148	Deep Learning to Improve Heart Disease Risk Prediction. <i>Lecture Notes in Computer Science</i> , 2019, , 96-103.	1.0	9
150	Mapping risk of ischemic heart disease using machine learning in a Brazilian state. <i>PLoS ONE</i> , 2020, 15, e0243558.	1.1	6
151	Improving Clinical Translation of Machine Learning Approaches Through Clinician-Tailored Visual Displays of Black Box Algorithms: Development and Validation. <i>JMIR Medical Informatics</i> , 2020, 8, e15791.	1.3	17
152	Predicting Metabolic Syndrome With Machine Learning Models Using a Decision Tree Algorithm: Retrospective Cohort Study. <i>JMIR Medical Informatics</i> , 2020, 8, e17110.	1.3	31
153	Development and External Validation of a Machine Learning Tool to Rule Out COVID-19 Among Adults in the Emergency Department Using Routine Blood Tests: A Large, Multicenter, Real-World Study. <i>Journal of Medical Internet Research</i> , 2020, 22, e24048.	2.1	37
154	Machine-Learning Monitoring System for Predicting Mortality Among Patients With Noncancer End-Stage Liver Disease: Retrospective Study. <i>JMIR Medical Informatics</i> , 2020, 8, e24305.	1.3	8
155	Cardiac Auscultation Using Smartphones: Pilot Study. <i>JMIR MHealth and UHealth</i> , 2018, 6, e49.	1.8	22
157	Detection of optical coherence tomography-defined thin-cap fibroatheroma in the coronary artery using deep learning. <i>EuroIntervention</i> , 2020, 16, 404-412.	1.4	18
158	Construction and validation of a preterm birth risk assessment model using fuzzy analytic hierarchy process. <i>Bosnian Journal of Basic Medical Sciences</i> , 2021, , .	0.6	1
159	Performance Metrics for the Comparative Analysis of Clinical Risk Prediction Models Employing Machine Learning. <i>Circulation: Cardiovascular Quality and Outcomes</i> , 2021, 14, e007526.	0.9	24

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160	A machine learning classifier approach for identifying the determinants of under-five child undernutrition in Ethiopian administrative zones. <i>BMC Medical Informatics and Decision Making</i> , 2021, 21, 291.	1.5	19
164	Data Mining for the Prediction of Heart Disease: A Literature Survey. <i>Asian Journal of Computer Science and Technology</i> , 2019, 8, 1-6.	0.1	1
165	Thrice Filtered Information Energy Based Particle Swarm Feature Selection (TFIE-PSFS) Method Based Artificial Neural Network Classification for Improving Heart Disease Diagnosis. <i>Asian Journal of Engineering and Applied Technology</i> , 2019, 8, 1-8.	0.3	0
167	Application of machine learning to predict the occurrence of arrhythmia after acute myocardial infarction. <i>BMC Medical Informatics and Decision Making</i> , 2021, 21, 301.	1.5	11
170	Pediatric Patient Traumatic Brain Injury Prediction1. , 2020, , .		0
171	Detection of Chronic Disease in Primary Care Using Artificial Intelligence Techniques. <i>Advances in Healthcare Information Systems and Administration Book Series</i> , 2020, , 195-219.	0.2	0
174	Risk prediction and marker selection in nonsynonymous single nucleotide polymorphisms using whole genome sequencing data. <i>Animal Cells and Systems</i> , 2020, 24, 321-328.	0.8	2
175	Building Computational Models to Predict One-Year Mortality in ICU Patients with Acute Myocardial Infarction and Post Myocardial Infarction Syndrome. <i>AMIA Summits on Translational Science Proceedings</i> , 2019, 2019, 407-416.	0.4	12
177	Ensemble Machine Learning and Its Validation for Prediction of Coronary Artery Disease and Acute Coronary Syndrome Using Focused Carotid Ultrasound. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-10.	2.4	8
178	Electronic Medical Recordâ€Based Machine Learning Approach to Predict the Risk of 30-Day Adverse Cardiac Events After Invasive Coronary Treatment: Machine Learning Model Development and Validation. <i>JMIR Medical Informatics</i> , 2022, 10, e26801.	1.3	2
179	Vaginal Birth After Cesarean Section (VBAC) Model using Fuzzy Analytic Hierarch Process. <i>Acta Informatica Medica</i> , 2021, 29, 275.	0.5	3
180	A machine learningâ€based clinical decision support algorithm for reducing unnecessary coronary angiograms. <i>Cardiovascular Digital Health Journal</i> , 2022, 3, 21-30.	0.5	6
181	Deep Learning in Prediction of Late Major Bleeding After Transcatheter Aortic Valve Replacement. <i>Clinical Epidemiology</i> , 2022, Volume 14, 9-20.	1.5	5
182	Machine Learning Prediction Model for Acute Renal Failure After Acute Aortic Syndrome Surgery. <i>Frontiers in Medicine</i> , 2021, 8, 728521.	1.2	4
183	Deep Phenotyping and Prediction of Long-term Cardiovascular Disease: Optimized by Machine Learning. <i>Canadian Journal of Cardiology</i> , 2022, 38, 774-782.	0.8	6
184	Predictive Model for High Coronary Artery Calcium Score in Young Patients with Non-Dialysis Chronic Kidney Disease. <i>Journal of Personalized Medicine</i> , 2021, 11, 1372.	1.1	3
185	Machine Learning in Stroke Medicine: Opportunities and Challenges for Risk Prediction and Prevention. <i>Advances in Neuroethics</i> , 2021, , 57-71.	0.1	2
186	Artificial Intelligence in Laboratory Medicine. , 2022, , 803-812.		1

#	ARTICLE	IF	CITATIONS
187	Model drift: When it can be a sign of success and when it can be an occult problem. <i>Intelligence-based Medicine</i> , 2022, 6, 100058.	1.4	1
188	A review of the application of machine learning in adult obesity studies. , 2022, 2, 32-48.		4
189	Visual Analytics for Predicting Disease Outcomes Using Laboratory Test Results. <i>Informatics</i> , 2022, 9, 17.	2.4	0
190	Comparative analysis of explainable machine learning prediction models for hospital mortality. <i>BMC Medical Research Methodology</i> , 2022, 22, 53.	1.4	23
191	Are Machine Learning Algorithms More Accurate in Predicting Vegetable and Fruit Consumption Than Traditional Statistical Models? An Exploratory Analysis. <i>Frontiers in Nutrition</i> , 2022, 9, 740898.	1.6	7
192	Predicting adverse cardiac events in sarcoidosis: deep learning from automated characterization of regional myocardial remodeling. <i>International Journal of Cardiovascular Imaging</i> , 2022, 38, 1825-1836.	0.7	9
193	Cardiovascular Disease Screening in Women: Leveraging Artificial Intelligence and Digital Tools. <i>Circulation Research</i> , 2022, 130, 673-690.	2.0	29
194	A Comparison of LASSO Regression and Tree-Based Models for Delayed Cerebral Ischemia in Elderly Patients With Subarachnoid Hemorrhage. <i>Frontiers in Neurology</i> , 2022, 13, 791547.	1.1	7
195	A Powerful Paradigm for Cardiovascular Risk Stratification Using Multiclass, Multi-Label, and Ensemble-Based Machine Learning Paradigms: A Narrative Review. <i>Diagnostics</i> , 2022, 12, 722.	1.3	20
196	A Machine Learning Based Framework to Identify and Classify Non-alcoholic Fatty Liver Disease in a Large-Scale Population. <i>Frontiers in Public Health</i> , 2022, 10, 846118.	1.3	7
197	Advances in Machine Learning Approaches to Heart Failure with Preserved Ejection Fraction. <i>Heart Failure Clinics</i> , 2022, 18, 287-300.	1.0	9
198	Implementing Machine Learning in Interventional Cardiology: The Benefits Are Worth the Trouble. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 711401.	1.1	12
199	Comparison of Multivariable Logistic Regression and Machine Learning Models for Predicting Bronchopulmonary Dysplasia or Death in Very Preterm Infants. <i>Frontiers in Pediatrics</i> , 2021, 9, 759776.	0.9	5
200	The roles of predictors in cardiovascular risk models - a question of modeling culture?. <i>BMC Medical Research Methodology</i> , 2021, 21, 284.	1.4	3
201	Prediction of Mortality in Coronary Artery Disease: Role of Machine Learning and Maximal Exercise Capacity. <i>Mayo Clinic Proceedings</i> , 2022, 97, 1472-1482.	1.4	7
202	Machine learning models for prediction of adverse events after percutaneous coronary intervention. <i>Scientific Reports</i> , 2022, 12, 6262.	1.6	11
204	Comparison Between Statistical Model and Machine Learning Methods for Predicting the Risk of Renal Function Decline Using Routine Clinical Data in Health Screening. <i>Risk Management and Healthcare Policy</i> , 2022, Volume 15, 817-826.	1.2	2
205	Establishment of ICU Mortality Risk Prediction Models with Machine Learning Algorithm Using MIMIC-IV Database. <i>Diagnostics</i> , 2022, 12, 1068.	1.3	6

#	ARTICLE	IF	CITATIONS
206	Comparison of Severity of Illness Scores and Artificial Intelligence Models That Are Predictive of Intensive Care Unit Mortality: Meta-analysis and Review of the Literature. <i>JMIR Medical Informatics</i> , 2022, 10, e35293.	1.3	12
207	Artificial Intelligence for Education, Proctoring, and Credentialing in Cardiovascular Medicine. <i>Texas Heart Institute Journal</i> , 2022, 49, .	0.1	5
208	Cardiovascular Risk Stratification in Diabetic Retinopathy via Atherosclerotic Pathway in COVID-19/Non-COVID-19 Frameworks Using Artificial Intelligence Paradigm: A Narrative Review. <i>Diagnostics</i> , 2022, 12, 1234.	1.3	15
210	Predictive model of risk and severity of enteritis in systemic lupus erythematosus. <i>Lupus</i> , 2022, 31, 1226-1236.	0.8	5
211	A Cardiovascular Disease Prediction Model Based on Routine Physical Examination Indicators Using Machine Learning Methods: A Cohort Study. <i>Frontiers in Cardiovascular Medicine</i> , 0, 9, .	1.1	13
212	Machine Learning Coronary Artery Disease Prediction Based on Imaging and Non-Imaging Data. <i>Diagnostics</i> , 2022, 12, 1466.	1.3	2
214	Machine learning to predict post-operative acute kidney injury stage 3 after heart transplantation. <i>BMC Cardiovascular Disorders</i> , 2022, 22, .	0.7	4
215	Identifying the Determinants of Regional Raw Milk Prices in Russia Using Machine Learning. <i>Agriculture (Switzerland)</i> , 2022, 12, 1006.	1.4	2
216	Individual dynamic prediction of clinical endpoint from large dimensional longitudinal biomarker history: a landmark approach. <i>BMC Medical Research Methodology</i> , 2022, 22, .	1.4	3
217	Early Prediction of Cardiogenic Shock Using Machine Learning. <i>Frontiers in Cardiovascular Medicine</i> , 0, 9, .	1.1	2
218	The Australia and New Zealand Congenital Outcomes Registry for Surgery (<scp>ANZCORS</scp>): methodology and preliminary results. <i>ANZ Journal of Surgery</i> , 2022, 92, 3154-3161.	0.3	3
219	Multi-center validation of machine learning model for preoperative prediction of postoperative mortality. <i>Npj Digital Medicine</i> , 2022, 5, .	5.7	13
221	Developing and validating a chronic obstructive pulmonary disease quick screening questionnaire using statistical learning models. <i>Chronic Respiratory Disease</i> , 2022, 19, 147997312211165.	1.0	1
222	Machine Learning Algorithm to Predict Obstructive Coronary Artery Disease: Insights from the CorLipid Trial. <i>Metabolites</i> , 2022, 12, 816.	1.3	4
223	Neurological mechanism and treatment effects prediction of acupuncture on migraine without aura: Study protocol for a randomized controlled trial. <i>Frontiers in Neurology</i> , 0, 13, .	1.1	3
224	Artificial Intelligence in Biological Sciences. <i>Life</i> , 2022, 12, 1430.	1.1	15
225	Preliminary prediction of semen quality based on modifiable lifestyle factors by using the XGBoost algorithm. <i>Frontiers in Medicine</i> , 0, 9, .	1.2	3
226	Machine Learning Algorithms for understanding the determinants of under-five Mortality. <i>BioData Mining</i> , 2022, 15, .	2.2	16

#	ARTICLE	IF	CITATIONS
227	Development and validation of prediction models for hypertension risks: A cross-sectional study based on 4,287,407 participants. <i>Frontiers in Cardiovascular Medicine</i> , 0, 9, .	1.1	4
228	Development of a complete blood count with differentialâ€”based prediction model for in-hospital mortality among patients with acute myocardial infarction in the coronary care unit. <i>Frontiers in Cardiovascular Medicine</i> , 0, 9, .	1.1	1
229	Feature Importance Measures as Explanation for Classification Applied to Hospital Readmission Prediction. <i>Procedia Computer Science</i> , 2022, 207, 1388-1397.	1.2	1
230	Predicting Bacteremia among Septic Patients Based on ED Information by Machine Learning Methods: A Comparative Study. <i>Diagnostics</i> , 2022, 12, 2498.	1.3	0
231	Machine Learning Approach to Predict Inâ€”Hospital Mortality in Patients Admitted for Peripheral Artery Disease in the United States. <i>Journal of the American Heart Association</i> , 2022, 11, .	1.6	5
232	Review of IoT-based AI analysis method through real-time indoor air quality and health effect monitoring - Focusing on indoor air pollution that are harmful to the respiratory organ -. <i>Tuberculosis and Respiratory Diseases</i> , 0, , .	0.7	2
233	Machine learning outperformed logistic regression classification even with limit sample size: A model to predict pediatric HIV mortality and clinical progression to AIDS. <i>PLoS ONE</i> , 2022, 17, e0276116.	1.1	5
234	Machine Learning and Deep Learning in Cardiothoracic Imaging: A Scoping Review. <i>Diagnostics</i> , 2022, 12, 2512.	1.3	1
235	Cardiovascular Risk Prediction Using Machine Learning in a Large Japanese Cohort. <i>Circulation Reports</i> , 2022, 4, 595-603.	0.4	3
237	Deep Learning Improves Prediction of Cardiovascular Disease-Related Mortality and Admission in Patients with Hypertension: Analysis of the Korean National Health Information Database. <i>Journal of Clinical Medicine</i> , 2022, 11, 6677.	1.0	3
238	Modelling the field personnel resources to control footâ€”andâ€”mouth disease outbreaks in New Zealand. <i>Transboundary and Emerging Diseases</i> , 0, , .	1.3	1
239	Medication adherence prediction through temporal modelling in cardiovascular disease management. <i>BMC Medical Informatics and Decision Making</i> , 2022, 22, .	1.5	0
240	Leveraging Machine Learning Techniques to Forecast Chronic Total Occlusion before Coronary Angiography. <i>Journal of Clinical Medicine</i> , 2022, 11, 6993.	1.0	1
241	Cardiovascular/Stroke Risk Stratification in Diabetic Foot Infection Patients Using Deep Learning-Based Artificial Intelligence: An Investigative Study. <i>Journal of Clinical Medicine</i> , 2022, 11, 6844.	1.0	9
242	Outcome prediction for patients assessed by the medical emergency team: a retrospective cohort study. <i>BMC Emergency Medicine</i> , 2022, 22, .	0.7	3
243	The Prognostic Value of Bâ€”Type Natriuretic Peptide in Patients With Cardiac Sarcoidosis Without Heart Failure: Insights From ILLUMINATEâ€”CS. <i>Journal of the American Heart Association</i> , 2022, 11, .	1.6	3
244	Factors affecting HPV infection in U.S. and Beijing females: A modeling study. <i>Frontiers in Public Health</i> , 0, 10, .	1.3	3
245	Use of machine learning models to predict inâ€”hospital mortality in patients with acute coronary syndrome. <i>Clinical Cardiology</i> , 2023, 46, 184-194.	0.7	5

#	ARTICLE	IF	CITATIONS
246	Development of Prediction Models for Acute Myocardial Infarction at Prehospital Stage with Machine Learning Based on a Nationwide Database. <i>Journal of Cardiovascular Development and Disease</i> , 2022, 9, 430.	0.8	2
247	RCT versus real-world cohorts: Differences in patient characteristics drive associations with outcome after EVT. <i>European Stroke Journal</i> , 2023, 8, 231-240.	2.7	2
248	Economics of Artificial Intelligence in Healthcare: Diagnosis vs. Treatment. <i>Healthcare (Switzerland)</i> , 2022, 10, 2493.	1.0	29
249	Exploring the incremental utility of circulating biomarkers for robust risk prediction of incident atrial fibrillation in European cohorts using regressions and modern machine learning methods. <i>Europace</i> , 2023, 25, 812-819.	0.7	6
251	Classification Performance of Machine Learning Methods for Identifying Resistance, Resilience, and Susceptibility to <i>Haemonchus contortus</i> Infections in Sheep. <i>Animals</i> , 2023, 13, 374.	1.0	6
252	A Machine Learning-Based Applied Prediction Model for Identification of Acute Coronary Syndrome (ACS) Outcomes and Mortality in Patients during the Hospital Stay. <i>Sensors</i> , 2023, 23, 1351.	2.1	4
253	Distinct Subtypes of Hepatorenal Syndrome and Associated Outcomes as Identified by Machine Learning Consensus Clustering. <i>Diseases (Basel, Switzerland)</i> , 2023, 11, 18.	1.0	2
254	Performance of Statistical and Machine Learning Risk Prediction Models for Surveillance Benefits and Failures in Breast Cancer Survivors. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2023, 32, 561-571.	1.1	2
255	Cardiovascular complications in a diabetes prediction model using machine learning: a systematic review. <i>Cardiovascular Diabetology</i> , 2023, 22, .	2.7	18
257	<sc>EAACI</sc> guidelines on environmental science in allergic diseases and asthma â€œ Leveraging artificial intelligence and machine learning to develop a causality model in exposomics. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2023, 78, 1742-1757.	2.7	11
258	Predicting Hepatotoxicity Associated with Low-Dose Methotrexate Using Machine Learning. <i>Journal of Clinical Medicine</i> , 2023, 12, 1599.	1.0	1
259	Artificial Intelligence as a Diagnostic Tool in Non-Invasive Imaging in the Assessment of Coronary Artery Disease. <i>Medical Sciences (Basel, Switzerland)</i> , 2023, 11, 20.	1.3	1
262	Machine Learning and the Conundrum of Stroke Risk Prediction. <i>Arrhythmia and Electrophysiology Review</i> , 0, 12, .	1.3	1
263	Application of machine learning tools for feature selection in the identification of prognostic markers in COVID-19. <i>Epidemiologic Methods</i> , 2023, 12, .	0.8	1
264	Cardiovascular disease incidence prediction by machine learning and statistical techniques: a 16-year cohort study from eastern Mediterranean region. <i>BMC Medical Informatics and Decision Making</i> , 2023, 23, .	1.5	2
265	Understanding post-surgical decline in left ventricular function in primary mitral regurgitation using regression and machine learning models. <i>Frontiers in Cardiovascular Medicine</i> , 0, 10, .	1.1	1
269	A comprehensive review of machine learning algorithms and their application in geriatric medicine: present and future. <i>Aging Clinical and Experimental Research</i> , 2023, 35, 2363-2397.	1.4	8
273	Cardiovascular disease risk prediction using machine learning. <i>AIP Conference Proceedings</i> , 2023, , .	0.3	0

#	ARTICLE	IF	CITATIONS
274	Risk Factor Prediction of Heart Disease using Machine Learning Approaches. , 2023, , .		0