Explainable machine-learning predictions for the preve

Nature Biomedical Engineering

2, 749-760

DOI: 10.1038/s41551-018-0304-0

Citation Report

#	Article	IF	Citations
1	Artificial intelligence in healthcare. Nature Biomedical Engineering, 2018, 2, 719-731.	11.6	1,437
2	Clear oxygen-level forecasts during anaesthesia. Nature Biomedical Engineering, 2018, 2, 715-716.	11.6	0
3	Reconstructing commuters network using machine learning and urban indicators. Scientific Reports, 2019, 9, 11801.	1.6	45
4	Target-Specific Prediction of Ligand Affinity with Structure-Based Interaction Fingerprints. Journal of Chemical Information and Modeling, 2019, 59, 3679-3691.	2.5	16
5	Improving Operating Room Efficiency: Machine Learning Approach to Predict Case-Time Duration. Journal of the American College of Surgeons, 2019, 229, 346-354e3.	0.2	76
6	Radiomics Model to Predict Early Progression of Nonmetastatic Nasopharyngeal Carcinoma after Intensity Modulation Radiation Therapy: A Multicenter Study. Radiology: Artificial Intelligence, 2019, 1, e180075.	3.0	32
7	Explainable Classifier Supporting Decision-making for Breast Cancer Diagnosis from Histopathological Images. , 2019, , .		5
8	Panel 2 Position Paper: AI could Solve the Worldâ€™s Healthcare Problems and that too at Scale!. , 2019, , .		0
9	Looking beyond the hype: Applied AI and machine learning in translational medicine. EBioMedicine, 2019, 47, 607-615.	2.7	82
10	Explainable Artificial Intelligence for Safe Intraoperative Decision Support. JAMA Surgery, 2019, 154, 1064.	2.2	67
11	From Group-Level Statistics to Single-Subject Prediction: Machine Learning Detection of Concussion in Retired Athletes. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 1492-1501.	2.7	22
12	Artificial intelligence for precision oncology: beyond patient stratification. Npj Precision Oncology, 2019, 3, 6.	2.3	90
13	DeePathology: Deep Multi-Task Learning for Inferring Molecular Pathology from Cancer Transcriptome. Scientific Reports, 2019, 9, 16526.	1.6	32
14	What Lies Beneath: A Note on the Explainability of Black-box Machine Learning Models for Road Traffic Forecasting. , 2019, , .		12
15	Deep Learning for Automatically Visual Evoked Potential Classification During Surgical Decompression of Sellar Region Tumors. Translational Vision Science and Technology, 2019, 8, 21.	1.1	19
16	Interpretable Machine Learning with Boosting by Boolean Algorithm. , 2019, , .		4
17	High-performance medicine: the convergence of human and artificial intelligence. Nature Medicine, 2019, 25, 44-56.	15.2	2,938
18	Interpretation of Compound Activity Predictions from Complex Machine Learning Models Using Local Approximations and Shapley Values. Journal of Medicinal Chemistry, 2020, 63, 8761-8777.	2.9	178

#	Article	IF	Citations
19	Physiological abnormalities in patients admitted with acute exacerbation of COPD: an observational study with continuous monitoring. Journal of Clinical Monitoring and Computing, 2020, 34, 1051-1060.	0.7	19
20	Heart Sound Segmentation Using Bidirectional LSTMs With Attention. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 1601-1609.	3.9	45
21	Temporal convolutional networks allow early prediction of events in critical care. Journal of the American Medical Informatics Association: JAMIA, 2020, 27, 355-365.	2.2	23
22	Artificial intelligence, machine learning and the pediatric airway. Paediatric Anaesthesia, 2020, 30, 264-268.	0.6	25
23	Effects of microplastics on growth, phenanthrene stress, and lipid accumulation in a diatom, Phaeodactylum tricornutum. Environmental Pollution, 2020, 257, 113628.	3.7	80
24	Explainable Machine Learning Model for Predicting GI Bleed Mortality in the Intensive Care Unit. American Journal of Gastroenterology, 2020, 115, 1657-1668.	0.2	41
26	70 years of machine learning in geoscience in review. Advances in Geophysics, 2020, , 1-55.	1.1	118
27	T4SE-XGB: Interpretable Sequence-Based Prediction of Type IV Secreted Effectors Using eXtreme Gradient Boosting Algorithm. Frontiers in Microbiology, 2020, 11, 580382.	1.5	23
28	A qualitative research framework for the design of user-centered displays of explanations for machine learning model predictions in healthcare. BMC Medical Informatics and Decision Making, 2020, 20, 257.	1.5	56
29	The present and future role of artificial intelligence and machine learning in anesthesiology. International Anesthesiology Clinics, 2020, 58, 7-16.	0.3	9
30	A supervised machine learning-based methodology for analyzing dysregulation in splicing machinery: An application in cancer diagnosis. Artificial Intelligence in Medicine, 2020, 108, 101950.	3.8	8
31	SMART on FHIR in spine: integrating clinical prediction models into electronic health records for precision medicine at the point of care. Spine Journal, 2020, 21, 1649-1651.	0.6	17
32	Machine Learningâ€"Based Interpretation and Visualization of Nonlinear Interactions in Prostate Cancer Survival. JCO Clinical Cancer Informatics, 2020, 4, 637-646.	1.0	52
33	EnergyStar++: Towards more accurate and explanatory building energy benchmarking. Applied Energy, 2020, 276, 115413.	5.1	83
34	Future possibilities for artificial intelligence in the practical management of hypertension. Hypertension Research, 2020, 43, 1327-1337.	1.5	19
35	Precision medicine in anesthesiology. International Anesthesiology Clinics, 2020, 58, 17-22.	0.3	4
36	Stem Cells and Extracellular Vesicles: Biological Regulators of Physiology and Disease. , 2020, , .		0
37	Explainable classifier for improving the accountability in decision-making for colorectal cancer diagnosis from histopathological images. Journal of Biomedical Informatics, 2020, 109, 103523.	2.5	43

#	Article	IF	Citations
38	Development and Validation of the Quick COVID-19 Severity Index: A Prognostic Tool for Early Clinical Decompensation. Annals of Emergency Medicine, 2020, 76, 442-453.	0.3	219
39	Predicting Water Production in the Williston Basin using a Machine Learning Model. , 2020, , .		5
40	Prediction and pattern analysis of medication refill adherence through electronic health records and dispensation data. Journal of Biomedical Informatics, 2020, 112, 100075.	2.5	10
41	Elucidating the Behavior of Nanophotonic Structures through Explainable Machine Learning Algorithms. ACS Photonics, 2020, 7, 2309-2318.	3.2	58
42	Assessment of a Deep Learning Model to Predict Hepatocellular Carcinoma in Patients With Hepatitis C Cirrhosis. JAMA Network Open, 2020, 3, e2015626.	2.8	75
43	Permian Delaware Basin Wolfcamp A Formation Productivity Analysis and Technically Recoverable Resource Assessment. , 2020, , .		4
44	Evaluating the Impact of Precision Targeting on Production in the Midland Basin using Machine Learning Algorithms. , 2020, , .		0
45	Deriving Time-Dependent Scaling Factors for Completions Parameters in the Williston Basin using a Multi-Target Machine Learning Model and Shapley Values. , 2020, , .		0
46	GeoSHAP: A Novel Method of Deriving Rock Quality Index from Machine Learning Models and Principal Components Analysis. , 2020, , .		4
47	The Impact of Interwell Spacing Over Time - A Machine Learning Approach. , 2020, , .		1
48	Visualizing Functional Network Connectivity Difference between Healthy Control and Major Depressive Disorder Using an Explainable Machine-learning Method. , 2020, 2020, 1424-1427.		9
49	Improving Model Performance on the Stratification of Breast Cancer Patients by Integrating Multiscale Genomic Features. BioMed Research International, 2020, 2020, 1-12.	0.9	1
50	Deep Learning for Diabetes: A Systematic Review. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 2744-2757.	3.9	89
51	From explanations to feature selection: assessing SHAP values as feature selection mechanism. , 2020, , .		74
52	Locomotion in virtual environments predicts cardiovascular responsiveness to subsequent stressful challenges. Nature Communications, 2020, 11, 5904.	5.8	17
53	Biomarker discovery for predicting spontaneous preterm birth from gene expression data by regularized logistic regression. Computational and Structural Biotechnology Journal, 2020, 18, 3434-3446.	1.9	18
54	Selecting the most important self-assessed features for predicting conversion to mild cognitive impairment with random forest and permutation-based methods. Scientific Reports, 2020, 10, 20630.	1.6	47
55	Clinically Applicable AI System for Accurate Diagnosis, Quantitative Measurements, and Prognosis of COVID-19 Pneumonia Using Computed Tomography. Cell, 2020, 181, 1423-1433.e11.	13.5	638

#	Article	IF	Citations
56	Forecasting a Crisis: Machine-Learning Models Predict Occurrence of Intraoperative Bradycardia Associated With Hypotension. Anesthesia and Analgesia, 2020, 130, 1201-1210.	1.1	20
57	Direct comparison shows that mRNA-based diagnostics incorporate information which cannot be learned directly from genomic mutations. BMC Bioinformatics, 2020, 21, 196.	1.2	2
58	Deep learning for fabrication and maturation of 3D bioprinted tissues and organs. Virtual and Physical Prototyping, 2020, 15, 340-358.	5.3	79
59	Deep Learning for Improved Risk Prediction in Surgical Outcomes. Scientific Reports, 2020, 10, 9289.	1.6	41
60	A case-based ensemble learning system for explainable breast cancer recurrence prediction. Artificial Intelligence in Medicine, 2020, 107, 101858.	3.8	55
61	Nutrition in times of Covid-19, how to trust the deluge of scientific information. Current Opinion in Clinical Nutrition and Metabolic Care, 2020, 23, 288-293.	1.3	9
62	Integrating Co-Clustering and Interpretable Machine Learning for the Prediction of Intravenous Immunoglobulin Resistance in Kawasaki Disease. IEEE Access, 2020, 8, 97064-97071.	2.6	25
63	When Predictive Models Collide. JCO Clinical Cancer Informatics, 2020, 4, 547-550.	1.0	2
64	Graph embedded rules for explainable predictions in data streams. Neural Networks, 2020, 129, 174-192.	3.3	3
65	Toward a unified framework for interpreting machine-learning models in neuroimaging. Nature Protocols, 2020, 15, 1399-1435.	5.5	88
66	Dynamic and explainable machine learning prediction of mortality in patients in the intensive care unit: a retrospective study of high-frequency data in electronic patient records. The Lancet Digital Health, 2020, 2, e179-e191.	5.9	187
67	Interpretability of machine learningâ€based prediction models in healthcare. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2020, 10, e1379.	4.6	178
68	Explainable Deep Learning Models in Medical Image Analysis. Journal of Imaging, 2020, 6, 52.	1.7	314
69	Machine learning in haematological malignancies. Lancet Haematology,the, 2020, 7, e541-e550.	2.2	73
70	Explainable Machine Learning Approach as a Tool to Understand Factors Used to Select the Refractive Surgery Technique on the Expert Level. Translational Vision Science and Technology, 2020, 9, 8.	1.1	47
71	Physician understanding, explainability, and trust in a hypothetical machine learning risk calculator. Journal of the American Medical Informatics Association: JAMIA, 2020, 27, 592-600.	2.2	97
72	Automated machine learning: Review of the state-of-the-art and opportunities for healthcare. Artificial Intelligence in Medicine, 2020, 104, 101822.	3.8	419
73	Post-traumatic Stress Disorder Following Acute Stroke. Current Emergency and Hospital Medicine Reports, 2020, 8, 1-8.	0.6	8

#	Article	IF	Citations
74	Prediction of gestational diabetes based on nationwide electronic health records. Nature Medicine, 2020, 26, 71-76.	15.2	170
75	From local explanations to global understanding with explainable AI for trees. Nature Machine Intelligence, 2020, 2, 56-67.	8.3	2,869
76	Machine learning can identify newly diagnosed patients with CLL at high risk of infection. Nature Communications, 2020, 11, 363.	5.8	75
78	Heart rate n-variability (HRnV) and its application to risk stratification of chest pain patients in the emergency department. BMC Cardiovascular Disorders, 2020, 20, 168.	0.7	15
79	Artificial Intelligence in Hematology: Current Challenges and Opportunities. Current Hematologic Malignancy Reports, 2020, 15, 203-210.	1.2	28
80	Electronic Health Records to Predict Gestational Diabetes Risk. Trends in Pharmacological Sciences, 2020, 41, 301-304.	4.0	7
81	Explainability of a Machine Learning Granting Scoring Model in Peer-to-Peer Lending. IEEE Access, 2020, 8, 64873-64890.	2.6	69
82	Restructured society and environment: A review on potential technological strategies to control the COVID-19 pandemic. Science of the Total Environment, 2020, 725, 138858.	3.9	200
84	An Explainable Machine Learning Framework for Intrusion Detection Systems. IEEE Access, 2020, 8, 73127-73141.	2.6	149
85	PathME: pathway based multi-modal sparse autoencoders for clustering of patient-level multi-omics data. BMC Bioinformatics, 2020, 21, 146.	1.2	38
86	Identification of Children at Risk of Schizophrenia via Deep Learning and EEG Responses. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 69-76.	3.9	44
87	Clinical Pharmacology Modeling and Simulation in Drug Development. , 2021, , 243-256.		0
88	VtNet: A neural network with variable importance assessment. Stat, 2021, 10, e325.	0.3	0
89	Can Machine Learning Assist Locating the Excitation of Snore Sound? A Review. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 1233-1246.	3.9	24
90	WisdomNet: trustable machine learning toward error-free classification. Neural Computing and Applications, 2021, 33, 2719-2734.	3.2	7
91	Machine learning in predicting early remission in patients after surgical treatment of acromegaly: a multicenter study. Pituitary, 2021, 24, 53-61.	1.6	16
92	Driving safety assessment for ride-hailing drivers. Accident Analysis and Prevention, 2021, 149, 105574.	3.0	29
93	Leveraging unstructured call log data for customer churn prediction. Knowledge-Based Systems, 2021, 212, 106586.	4.0	55

#	Article	IF	Citations
94	Assessing the authenticity of subjective information in the blockchain: a survey and open issues. World Wide Web, 2021, 24, 483-509.	2.7	4
95	Enhancing the Evaluation and Interpretability of Data-Driven Air Quality Models. Atmospheric Environment, 2021, 246, 118125.	1.9	24
96	Development and validation of a machine learningâ€based postpartum depression prediction model: A nationwide cohort study. Depression and Anxiety, 2021, 38, 400-411.	2.0	39
97	A prediction and interpretation framework of acute kidney injury in critical care. Journal of Biomedical Informatics, 2021, 113, 103653.	2.5	13
98	Multichannel mixture models for time-series analysis and classification of engagement with multiple health services: An application to psychology and physiotherapy utilization patterns after traffic accidents. Artificial Intelligence in Medicine, 2021, 111, 101997.	3.8	3
99	Predicting Metastasis Risk in Pancreatic Neuroendocrine Tumors Using Deep Learning Image Analysis. Frontiers in Oncology, 2020, 10, 593211.	1.3	20
100	A Deep Learning Approach to Diagnosing Multiple Sclerosis from Smartphone Data. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 1284-1291.	3.9	22
101	A Glycolysis Gene Methylation Prediction Model Based on Explainable Machine Learning for Alzheimer's Disease. SSRN Electronic Journal, 0, , .	0.4	0
102	Digesting Three-Factor Model by XGBoost and SHAP. SSRN Electronic Journal, 0, , .	0.4	0
103	Lifelog Data-Based Prediction Model of Digital Health Care App Customer Churn: Retrospective Observational Study. Journal of Medical Internet Research, 2021, 23, e22184.	2.1	10
105	Machine learning-based prediction of COVID-19 diagnosis based on symptoms. Npj Digital Medicine, 2021, 4, 3.	5.7	324
106	Rapid discovery of novel prophages using biological feature engineering and machine learning. NAR Genomics and Bioinformatics, 2021, 3, lqaa109.	1.5	39
107	Explaining Individual and Collective Programming Studentsâ€™ Behavior by Interpreting a Black-Box Predictive Model. IEEE Access, 2021, 9, 117097-117119.	2.6	24
108	Immune and cellular damage biomarkers to predict COVID-19 mortality in hospitalized patients. Current Research in Immunology, 2021, 2, 155-162.	1.2	4
109	AIM in Oncology. , 2021, , 1-11.		0
110	Hard Working Is More Important than Destiny. SSRN Electronic Journal, 0, , .	0.4	0
111	CAFS: Cost-Aware Features Selection Method for Multimodal Stress Monitoring on Wearable Devices. IEEE Transactions on Biomedical Engineering, 2022, 69, 1072-1084.	2.5	9
112	Ascertaining Design Requirements for Postoperative Care Transition Interventions. Applied Clinical Informatics, 2021, 12, 107-115.	0.8	11

#	Article	IF	Citations
113	Feature-Based Deep Neural Networks for Short-Term Prediction of WiFi Channel Occupancy Rate. IEEE Access, 2021, 9, 85645-85660.	2.6	4
114	Development of a Predictive Model of Intraoperative Conversion to Thoracotomy for Lung Cancer Patients Undergoing Video-Assisted Thoracoscopic Surgery Lobectomy. SSRN Electronic Journal, 0, , .	0.4	0
115	Prediction model of laparoendoscopic single-site surgery in gynecology using machine learning algorithm. Wideochirurgia I Inne Techniki Maloinwazyjne, 2021, 16, 587-596.	0.3	1
116	Potential for Process Improvement of Clinical Flow Cytometry by Incorporating Real-Time Automated Screening of Data to Expedite Addition of Antibody Panels. American Journal of Clinical Pathology, 2022, 157, 443-450.	0.4	5
117	A comparison of machine learning models versus clinical evaluation for mortality prediction in patients with sepsis. PLoS ONE, 2021, 16, e0245157.	1.1	48
119	Genetic Analysis of Coronary Artery Disease Using Tree-Based Automated Machine Learning Informed By Biology-Based Feature Selection. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2022, 19, 1379-1386.	1.9	9
120	Applying Explainable Artificial Intelligence Techniques on Linked Open Government Data. Lecture Notes in Computer Science, 2021, , 247-258.	1.0	3
121	A multilayer multimodal detection and prediction model based on explainable artificial intelligence for Alzheimerâ€™s disease. Scientific Reports, 2021, 11, 2660.	1.6	125
122	Sibyl: Understanding and Addressing the Usability Challenges of Machine Learning In High-Stakes Decision Making. IEEE Transactions on Visualization and Computer Graphics, 2022, 28, 1161-1171.	2.9	9
123	Personalized Multimorbidity Management for Patients with Type 2 Diabetes Using Reinforcement Learning of Electronic Health Records. Drugs, 2021, 81, 471-482.	4.9	20
124	Assessment of the timeliness and robustness for predicting adult sepsis. IScience, 2021, 24, 102106.	1.9	5
125	Clinical applications of artificial intelligence and machine learningâ€based methods in inflammatory bowel disease. Journal of Gastroenterology and Hepatology (Australia), 2021, 36, 279-285.	1.4	11
126	Universal neurophysiological interpretation of EEG brain-computer interfaces. , 2021, , .		1
127	Deep learning the collisional cross sections of the peptide universe from a million experimental values. Nature Communications, 2021, 12, 1185.	5.8	81
128	Explainable Tree-Based Predictions for Unplanned 30-Day Readmission of Patients With Cancer Using Clinical Embeddings. JCO Clinical Cancer Informatics, 2021, 5, 155-167.	1.0	9
129	Explainable drug sensitivity prediction through cancer pathway enrichment. Scientific Reports, 2021, 11, 3128.	1.6	17
130	Modeling dispositional and initial learned trust in automated vehicles with predictability and explainability. Transportation Research Part F: Traffic Psychology and Behaviour, 2021, 77, 102-116.	1.8	39
131	Use of Machine Learning to Develop and Evaluate Models Using Preoperative and Intraoperative Data to Identify Risks of Postoperative Complications. JAMA Network Open, 2021, 4, e212240.	2.8	106

#	Article	IF	Citations
132	Collaborative General Purpose Convolutional Neural Networks. Journal of Signal Processing, 2021, 25, 53-61.	0.2	0
134	Machine learning analysis of pregnancy data enables early identification of a subpopulation of newborns with ASD. Scientific Reports, 2021, 11, 6877.	1.6	25
137	Explainable machine learning can outperform Cox regression predictions and provide insights in breast cancer survival. Scientific Reports, 2021, 11, 6968.	1.6	123
138	When Do Drivers Interact with In-Vehicle Well-being Interventions?. , 2021, 5, 1-30.		13
140	Disentangling the Contribution of Each Descriptive Characteristic of Every Single Mutation to Its Functional Effects. Journal of Chemical Information and Modeling, 2021, 61, 2090-2098.	2.5	1
144	Analysis of Gut Microbiome Using Explainable Machine Learning Predicts Risk of Diarrhea Associated With Tyrosine Kinase Inhibitor Neratinib: A Pilot Study. Frontiers in Oncology, 2021, 11, 604584.	1.3	16
145	Meteorology-driven variability of air pollution (PM₁) revealed with explainable machine learning. Atmospheric Chemistry and Physics, 2021, 21, 3919-3948.	1.9	46
146	Investigating the Evolution of Tree Boosting Models with Visual Analytics. , 2021, , .		6
147	Hyperbolic relational graph convolution networks plus: a simple but highly efficient QSAR-modeling method. Briefings in Bioinformatics, 2021, 22, .	3.2	22
148	Commentary: Deus ex machina: Bad coding or perfect plot device?. Journal of Thoracic and Cardiovascular Surgery, 2022, 163, 1138-1139.	0.4	0
149	Deep Learning Techniques for Fatty Liver Using Multi-View Ultrasound Images Scanned by Different Scanners: Development and Validation Study. JMIR Medical Informatics, 2021, 9, e30066.	1.3	7
150	An Explainable Artificial Intelligence Framework for the Deterioration Risk Prediction of Hepatitis Patients. Journal of Medical Systems, 2021, 45, 61.	2.2	40
151	Establishing Machine Learning Models to Predict Curative Resection in Early Gastric Cancer with Undifferentiated Histology: Development and Usability Study. Journal of Medical Internet Research, 2021, 23, e25053.	2.1	28
152	Learning from imbalanced fetal outcomes of systemic lupus erythematosus in artificial neural networks. BMC Medical Informatics and Decision Making, 2021, 21, 127.	1.5	4
154	Gut microbiota, inflammation, and molecular signatures of host response to infection. Journal of Genetics and Genomics, 2021, 48, 792-802.	1.7	49
155	Disruption prediction and model analysis using LightGBM on J-TEXT and HL-2A. Plasma Physics and Controlled Fusion, 2021, 63, 075008.	0.9	13
156	Does the Whole Exceed its Parts? The Effect of AI Explanations on Complementary Team Performance. , 2021, , .		144
157	Novel Machine Learning Can Predict Acute Asthma Exacerbation. Chest, 2021, 159, 1747-1757.	0.4	35

#	Article	IF	Citations
158	A machine learning research template for binary classification problems and shapley values integration. Software Impacts, 2021, 8, 100074.	0.8	4
159	An Ensembled SVM Based Approach for Predicting Adverse Drug Reactions. Current Bioinformatics, 2021, 16, 422-432.	0.7	17
160	Radiomics-based neural network predicts recurrence patterns in glioblastoma using dynamic susceptibility contrast-enhanced MRI. Scientific Reports, 2021, 11, 9974.	1.6	22
161	An Inverse Relation between Hyperglycemia and Skeletal Muscle Mass Predicted by Using a Machine Learning Approach in Middle-Aged and Older Adults in Large Cohorts. Journal of Clinical Medicine, 2021, 10, 2133.	1.0	20
162	Sibyl: Explaining Machine Learning Models for High-Stakes Decision Making. , 2021, , .		3
163	Improving performance of deep learning models with axiomatic attribution priors and expected gradients. Nature Machine Intelligence, 2021, 3, 620-631.	8.3	69
164	Health improvement framework for actionable treatment planning using a surrogate Bayesian model. Nature Communications, 2021, 12, 3088.	5.8	6
165	Developing an Explainable Machine Learning-Based Personalised Dementia Risk Prediction Model: A Transfer Learning Approach With Ensemble Learning Algorithms. Frontiers in Big Data, 2021, 4, 613047.	1.8	31
166	Rise of Clinical Studies in the Field of Machine Learning: A Review of Data Registered in ClinicalTrials.gov. International Journal of Environmental Research and Public Health, 2021, 18, 5072.	1.2	13
167	An Interpretable Hand-Crafted Feature-Based Model for Atrial Fibrillation Detection. Frontiers in Physiology, 2021, 12, 657304.	1.3	15
169	Machine learning of EEG spectra classifies unconsciousness during GABAergic anesthesia. PLoS ONE, 2021, 16, e0246165.	1.1	14
170	Interpretable machine learning methods for in vitro pharmaceutical formulation development. Food Frontiers, 2021, 2, 195-207.	3.7	10
171	Development and Validation of ARC, a Model for Anticipating Acute Respiratory Failure in Coronavirus Disease 2019 Patients. , 2021, 3, e0441.		3
172	KnowSeq R-Bioc package: The automatic smart gene expression tool for retrieving relevant biological knowledge. Computers in Biology and Medicine, 2021, 133, 104387.	3.9	16
173	De Novo Identification and Visualization of Important Cell Populations for Classic Hodgkin Lymphoma Using Flow Cytometry and Machine Learning. American Journal of Clinical Pathology, 2021, 156, 1092-1102.	0.4	8
174	Prediction of Childhood Obesity from Nationwide Health Records. Journal of Pediatrics, 2021, 233, 132-140.e1.	0.9	12
175	Explaining a model predicting quality of surgical practice: a first presentation to and review by clinical experts. International Journal of Computer Assisted Radiology and Surgery, 2021, 16, 2009-2019.	1.7	3
176	Identifying and characterizing high-risk clusters in a heterogeneous ICU population with deep embedded clustering. Scientific Reports, 2021, 11, 12109.	1.6	27

#	Article	IF	Citations
177	The Practicality of Deep Learning Algorithms in COVID-19 Detection: Application to Chest X-ray Images. Algorithms, 2021, 14, 183.	1.2	11
178	Analysis of Updated Literature Data up to 2019 on the Oxidative Coupling of Methane Using an Extrapolative Machineâ€Learning Method to Identify Novel Catalysts. ChemCatChem, 2021, 13, 3636-3655.	1.8	33
179	RiftNeXtâ„¢. , 2021, , .		5
180	Risk prediction for delayed clearance of high-dose methotrexate in pediatric hematological malignancies by machine learning. International Journal of Hematology, 2021, 114, 483-493.	0.7	6
181	A vital sign-based prediction algorithm for differentiating COVID-19 versus seasonal influenza in hospitalized patients. Npj Digital Medicine, 2021, 4, 95.	5.7	20
182	An explainable machine learning algorithm for risk factor analysis of in-hospital mortality in sepsis survivors with ICU readmission. Computer Methods and Programs in Biomedicine, 2021, 204, 106040.	2.6	31
183	Bioactivity descriptors for uncharacterized chemical compounds. Nature Communications, 2021, 12, 3932.	5.8	44
184	An explainable supervised machine learning predictor of acute kidney injury after adult deceased donor liver transplantation. Journal of Translational Medicine, 2021, 19, 321.	1.8	35
185	Diagnostic Utility of Radiomics in Thyroid and Head and Neck Cancers. Frontiers in Oncology, 2021, 11, 639326.	1.3	12
186	Cross-sectional analysis and data-driven forecasting of confirmed COVID-19 cases. Applied Intelligence, 2022, 52, 3303-3318.	3.3	4
187	OnRAMP for Regulating Artificial Intelligence in Medical Products. Advanced Intelligent Systems, 2021, 3, 2100042.	3.3	5
188	Automated Pattern Recognition in Whole-Cardiac Cycle Echocardiographic Data: Capturing Functional Phenotypes with Machine Learning. Journal of the American Society of Echocardiography, 2021, 34, 1170-1183.	1.2	10
189	Machine learning application for the prediction of SARS-CoV-2 infection using blood tests and chest radiograph. Scientific Reports, 2021, 11, 14250.	1.6	20
190	Augmenting Adaptive Machine Learning with Kinetic Modeling for Reaction Optimization. Journal of Organic Chemistry, 2021, 86, 14192-14198.	1.7	9
191	Explainable Anomaly Detection Framework for Maritime Main Engine Sensor Data. Sensors, 2021, 21, 5200.	2.1	20
192	Prediction-Based Maintenance of Existing Bridges Using Neural Network and Sensitivity Analysis. Advances in Civil Engineering, 2021, 2021, 1-17.	0.4	3
193	Predicting self-intercepted medication ordering errors using machine learning. PLoS ONE, 2021, 16, e0254358.	1.1	8
194	Efficient and Explainable Risk Assessments for Imminent Dementia in an Aging Cohort Study. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 2409-2420.	3.9	14

#	Article	IF	Citations
195	Application of Machine Learning Algorithms and SHAP for Prediction and Feature Analysis of Tempered Martensite Hardness in Low-Alloy Steels. Metals, 2021, 11, 1159.	1.0	13
196	Facts and Figures on Materials Science and Nanotechnology Progress and Investment. ACS Nano, 2021, 15, 15940-15952.	7.3	48
197	WebSecAsst - A Machine Learning based Chrome Extension. , 2021, , .		2
198	Explainable artificial intelligence for education and training. Journal of Defense Modeling and Simulation, 2022, 19, 133-144.	1.2	27
199	iDeepSubMito: identification of protein submitochondrial localization with deep learning. Briefings in Bioinformatics, 2021, 22, .	3.2	8
200	Dissecting the genre of Nigerian music with machine learning models. Journal of King Saud University - Computer and Information Sciences, 2022, 34, 6266-6279.	2.7	6
201	Rescue therapy for vasospasm following aneurysmal subarachnoid hemorrhage: a propensity scoreâ€"matched analysis with machine learning. Journal of Neurosurgery, 2022, 136, 134-147.	0.9	5
202	A Machine Learning-based DSS for mid and long-term company crisis prediction. Expert Systems With Applications, 2021, 174, 114758.	4.4	34
203	Machine Learning Prediction of Kidney Stone Composition Using Electronic Health Record-Derived Features. Journal of Endourology, 2022, 36, 243-250.	1.1	11
204	Advancing diagnostic performance and clinical usability of neural networks via adversarial training and dual batch normalization. Nature Communications, 2021, 12, 4315.	5.8	12
205	A Deep Recurrent Neural Network-Based Explainable Prediction Model for Progression from Atrophic Gastritis to Gastric Cancer. Applied Sciences (Switzerland), 2021, 11, 6194.	1.3	6
206	Predicting Driver Fatigue in Monotonous Automated Driving with Explanation using GPBoost and SHAP. International Journal of Human-Computer Interaction, 2022, 38, 719-729.	3.3	8
207	Discovery of novel Li SSE and anode coatings using interpretable machine learning and high-throughput multi-property screening. Scientific Reports, 2021, 11, 16484.	1.6	16
208	When life gives you oranges: detecting and diagnosing intermittent job failures at Mozilla. , 2021, , .		10
209	Identification of Blood-Based Glycolysis Gene Associated with Alzheimerâ€™s Disease by Integrated Bioinformatics Analysis. Journal of Alzheimer's Disease, 2021, 83, 163-178.	1.2	3
210	Consumer Behavior in the Online Classroom: Using Video Analytics and Machine Learning to Understand the Consumption of Video Courseware. Journal of Marketing Research, 2021, 58, 1079-1100.	3.0	30
212	Implementing machine learning in medicine. Cmaj, 2021, 193, E1351-E1357.	0.9	64
213	Assessing the utility of deep neural networks in predicting postoperative surgical complications: a retrospective study. The Lancet Digital Health, 2021, 3, e471-e485.	5.9	41

#	Article	IF	Citations
214	Improving postpartum hemorrhage risk prediction using longitudinal electronic medical records. Journal of the American Medical Informatics Association: JAMIA, 2022, 29, 296-305.	2.2	16
215	Progress and Perspective of Artificial Intelligence and Machine Learning of Prediction in Anesthesiology. Journal of Shanghai Jiaotong University (Science), 2022, 27, 112-120.	0.5	1
218	Machine Learning for Early Lung Cancer Identification Using Routine Clinical and Laboratory Data. American Journal of Respiratory and Critical Care Medicine, 2021, 204, 445-453.	2.5	63
220	Accelerating Prediction of Malignant Cerebral Edema After Ischemic Stroke with Automated Image Analysis and Explainable Neural Networks. Neurocritical Care, 2022, 36, 471-482.	1.2	9
221	Predictability of Mortality in Patients With Myocardial Injury After Noncardiac Surgery Based on Perioperative Factors via Machine Learning: Retrospective Study. JMIR Medical Informatics, 2021, 9, e32771.	1.3	6
222	Gradient boosting and Shapley additive explanations for fraud detection in electricity distribution grids. International Transactions on Electrical Energy Systems, 2021, 31, e13046.	1.2	10
223	Combating small-molecule aggregation with machine learning. Cell Reports Physical Science, 2021, 2, 100573.	2.8	11
224	Machine Learning for Real-Time Heart Disease Prediction. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 3627-3637.	3.9	34
225	Prediction of Critical Care Outcome for Adult Patients Presenting to Emergency Department Using Initial Triage Information: An XGBoost Algorithm Analysis. JMIR Medical Informatics, 2021, 9, e30770.	1.3	12
226	Non-technical losses detection in energy consumption focusing on energy recovery and explainability. Machine Learning, 2022, 111, 487-517.	3.4	7
228	Fairness Measures for Machine Learning in Finance. The Journal of Financial Data Science, 2021, 3, 33-64.	0.9	6
229	Explainable Machine Learning on AmsterdamUMCdb for ICU Discharge Decision Support: Uniting Intensivists and Data Scientists. , 2021, 3, e0529.		15
230	Interpretability of artificial intelligence models that use data fusion to predict yield in aeroponics. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 3331-3342.	3.3	7
232	Interpretable Machine Learning Model for Early Prediction of Mortality in ICU Patients with Rhabdomyolysis. Medicine and Science in Sports and Exercise, 2021, 53, 1826-1834.	0.2	10
233	Enhancing the Interpretability of Deep Models in Healthcare Through Attention: Application to Glucose Forecasting for Diabetic People. International Journal of Pattern Recognition and Artificial Intelligence, 2021, 35, .	0.7	3
234	Feature Explanations in Recurrent Neural Networks for Predicting Risk of Mortality in Intensive Care Patients. Journal of Personalized Medicine, 2021, 11, 934.	1.1	10
235	Machine Learning with Explainable Artificial Intelligence Vision for Characterization of Solution Conductivity Using Optical Emission Spectroscopy of Plasma in Aqueous Solution. Plasma Processes and Polymers, 2021, 18, e2100096.	1.6	5
236	Interpreting convolutional neural network for real-time volatile organic compounds detection and classification using optical emission spectroscopy of plasma. Analytica Chimica Acta, 2021, 1179, 338822.	2.6	20

#	Article	IF	Citations
238	A geno-clinical decision model for the diagnosis of myelodysplastic syndromes. Blood Advances, 2021, 5, 4361-4369.	2.5	9
239	<scp>Noncontrast</scp> Cardiac Magnetic Resonance Imaging Predictors of Heart Failure Hospitalization in Heart Failure With Preserved Ejection Fraction. Journal of Magnetic Resonance Imaging, 2022, 55, 1812-1825.	1.9	7
240	Nasopharyngeal metabolomics and machine learning approach for the diagnosis of influenza. EBioMedicine, 2021, 71, 103546.	2.7	16
241	Disrupting 3D printing of medicines with machine learning. Trends in Pharmacological Sciences, 2021, 42, 745-757.	4.0	62
242	Deep learning in cancer diagnosis, prognosis and treatment selection. Genome Medicine, 2021, 13, 152.	3.6	274
243	Multi-parametric MRI phenotype with trustworthy machine learning for differentiating CNS demyelinating diseases. Journal of Translational Medicine, 2021, 19, 377.	1.8	6
244	Interpretable prediction of 3-year all-cause mortality in patients with heart failure caused by coronary heart disease based on machine learning and SHAP. Computers in Biology and Medicine, 2021, 137, 104813.	3.9	80
245	Predicting the Evolution of Pain Relief. ACM Transactions on Computing for Healthcare, 2021, 2, 1-28.	3.3	1
246	Importance of satellite observations for high-resolution mapping of near-surface NO2 by machine learning. Remote Sensing of Environment, 2021, 264, 112573.	4.6	20
247	Explainable deep learning predictions for illness risk of mental disorders in Nanjing, China. Environmental Research, 2021, 202, 111740.	3.7	17
248	A cluster-based approach to predict serious adverse events in surgery. Expert Systems With Applications, 2021, 184, 115506.	4.4	0
249	Deep Learning for Medical Anomaly Detection â€“ A Survey. ACM Computing Surveys, 2022, 54, 1-37.	16.1	96
250	Forecasting plastic waste generation and interventions for environmental hazard mitigation. Journal of Hazardous Materials, 2022, 424, 127330.	6.5	55
251	Performance analysis of a DNN classifier for power system events using an interpretability method. International Journal of Electrical Power and Energy Systems, 2022, 136, 107594.	3.3	6
252	In silico nanosafety assessment tools and their ecosystem-level integration prospect. Nanoscale, 2021, 13, 8722-8739.	2.8	11
253	Using Eye-Tracking Data to Predict Situation Awareness in Real Time During Takeover Transitions in Conditionally Automated Driving. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 2284-2295.	4.7	38
254	Detection of abnormal left ventricular geometry in patients without cardiovascular disease through machine learning: An ECGâ€based approach. Journal of Clinical Hypertension, 2021, 23, 935-945.	1.0	14
255	Closed-Loop Neural Prostheses With On-Chip Intelligence: A Review and a Low-Latency Machine Learning Model for Brain State Detection. IEEE Transactions on Biomedical Circuits and Systems, 2021, 15, 877-897.	2.7	23

#	Article	IF	Citations
256	Artificial Intelligence for Smart Healthcare Management: Brief Study. Smart Innovation, Systems and Technologies, 2021, , 365-373.	0.5	5
257	Game theoretic interpretability for learning based preoperative gliomas grading. Future Generation Computer Systems, 2020, 112, 1-10.	4.9	14
258	Automating three-dimensional osteoarthritis histopathological grading of human osteochondral tissue using machine learning on contrast-enhanced micro-computed tomography. Osteoarthritis and Cartilage, 2020, 28, 1133-1144.	0.6	11
259	Artificial Intelligence and Posttraumatic Stress Disorder (PTSD). European Psychologist, 2020, 25, 272-282.	1.8	5
260	An explainable machine learning platform for pyrazinamide resistance prediction and genetic feature identification of Mycobacterium tuberculosis. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 533-540.	2.2	11
261	â€œA catalyst for actionâ€: Factors for implementing clinical risk prediction models of infection in home care settings. Journal of the American Medical Informatics Association: JAMIA, 2021, 28, 334-341.	2.2	3
262	Augmented intelligence in pediatric anesthesia and pediatric critical care. Current Opinion in Anaesthesiology, 2020, 33, 404-410.	0.9	10
263	Does Artificial Intelligence Outperform Natural Intelligence in Interpreting Musculoskeletal Radiological Studies? A Systematic Review. Clinical Orthopaedics and Related Research, 2020, 478, 2751-2764.	0.7	19
264	CORR Synthesis: When Should We Be Skeptical of Clinical Prediction Models?. Clinical Orthopaedics and Related Research, 2020, 478, 2722-2728.	0.7	21
276	Explainable Predictive Process Monitoring. , 2020, , .		32
277	Towards Wearable-based Hypoglycemia Detection and Warning in Diabetes. , 2020, , .		17
278	Explainable machine learning in deployment. , 2020, , .		258
279	Machine learning model interpretability using SHAP values: Application to a seismic facies classification task. , 2020, , .		17
280	Machine Learning Applied to Registry Data: Development of a Patient-Specific Prediction Model for Blood Transfusion Requirements During Craniofacial Surgery Using the Pediatric Craniofacial Perioperative Registry Dataset. Anesthesia and Analgesia, 2021, 132, 160-171.	1.1	25
281	An interpretable machine learning model of biological age. F1000Research, 0, 8, 17.	0.8	9
282	Using the National Trauma Data Bank (NTDB) and machine learning to predict trauma patient mortality at admission. PLoS ONE, 2020, 15, e0242166.	1.1	15
283	A systematic review on machine learning in sellar region diseases: quality and reporting items. Endocrine Connections, 2019, 8, 952-960.	0.8	36
285	Drivers of Prolonged Hospitalization Following Spine Surgery. Journal of Bone and Joint Surgery - Series A, 2021, 103, 64-73.	1.4	9

#	Article	IF	Citations
286	Application of Artificial Intelligence in Pharmaceutical and Biomedical Studies. Current Pharmaceutical Design, 2020, 26, 3569-3578.	0.9	29
287	Modeling Research Topics for Artificial Intelligence Applications in Medicine: Latent Dirichlet Allocation Application Study. Journal of Medical Internet Research, 2019, 21, e15511.	2.1	21
288	Prognostic Modeling of COVID-19 Using Artificial Intelligence in the United Kingdom: Model Development and Validation. Journal of Medical Internet Research, 2020, 22, e20259.	2.1	71
289	Artificial intelligence in cardiothoracic surgery. Minerva Cardioangiologica, 2020, 68, 532-538.	1.2	14
290	Artificial intelligence and perioperative medicine. Minerva Anestesiologica, 2021, 87, 817-822.	0.6	7
291	Game theory interpretation of digital soil mapping convolutional neural networks. Soil, 2020, 6, 389-397.	2.2	64
292	Machine learning based interpretation of microkinetic data: a Fischerâ€"Tropsch synthesis case study. Reaction Chemistry and Engineering, 2021, 7, 101-110.	1.9	12
293	VBridge: Connecting the Dots Between Features and Data to Explain Healthcare Models. IEEE Transactions on Visualization and Computer Graphics, 2022, 28, 378-388.	2.9	18
294	Trust in AI: why we should be designing for APPROPRIATE reliance. Journal of the American Medical Informatics Association: JAMIA, 2021, 29, 207-212.	2.2	17
296	Comparative Analysis of Explainable Artificial Intelligence for COVID-19 Diagnosis on CXR Image. , 2021, , .		4
298	An artificial intelligence model to predict hepatocellular carcinoma risk in Korean and Caucasian patients with chronic hepatitis B. Journal of Hepatology, 2022, 76, 311-318.	1.8	48
299	Artificial intelligence models in chronic lymphocytic leukemia â€" recommendations toward state-of-the-art. Leukemia and Lymphoma, 2022, 63, 265-278.	0.6	7
300	The impact of recency and adequacy of historical information on sepsis predictions using machine learning. Scientific Reports, 2021, 11, 20869.	1.6	7
301	Review of Deep Learning and Interpretability. Advances in Intelligent Systems and Computing, 2022, , 501-516.	0.5	0
302	Revealing drivers and risks for power grid frequency stability with explainable AI. Patterns, 2021, 2, 100365.	3.1	32
303	Predicting bloodstream infection outcome using machine learning. Scientific Reports, 2021, 11, 20101.	1.6	10
304	Machine learning classification of significant tornadoes and hail in the U.S. using ERA5 proximity soundings. Weather and Forecasting, 2021, , .	0.5	3
305	Tree-based machine learning performed in-memory with memristive analog CAM. Nature Communications, 2021, 12, 5806.	5.8	44

#	Article	IF	Citations
306	Importance of socioeconomic factors in predicting tooth loss among older adults in Japan: Evidence from a machine learning analysis. Social Science and Medicine, 2021, 291, 114486.	1.8	20
307	An interpretable deep neural network for colorectal polyp diagnosis under colonoscopy. Knowledge-Based Systems, 2021, 234, 107568.	4.0	14
308	PARKÄ°NSON HASTALIÄžININ SES SÄ°NYALLERÄ° ÃœZERÄ°NDEN MAKÄ°NE Ã–Ä žRENMESÄ° TEKNÄ°KLERÄ° Ä°LE TANIMLANMASI. Ã–m Halisdemir Ãœniversitesi MÃ¼hendislik Bilimleri Dergisi, 0, , .	0.2	5
310	Visual analytics for exploring air quality data in an AI-enhanced IoT environment. , 2019, , .		5
311	A Blood Test Model for the Prediction of Complicated Appendicitis. Advances in Clinical Medicine, 2020, 10, 1252-1259.	0.0	0
315	Explainable AI for the Operating Theater. , 2021, , 339-350.		0
316	Machine Learning Prediction Models for Mortality in Intensive Care Unit Patients with Lactic Acidosis. Journal of Clinical Medicine, 2021, 10, 5021.	1.0	8
317	Evidence of widespread, independent sequence signature for transcription factor cobinding. Genome Research, 2021, 31, 265-278.	2.4	5
318	Application of Cooperative Game Theory Principles to Interpret Machine Learning Models of Nonhome Discharge Following Spine Surgery. Spine, 2021, 46, 803-812.	1.0	10
320	Development of an Explainable Prediction Model of Heart Failure Survival by Using Ensemble Trees. , 2020, , .		19
322	Crash prediction for a French highway network with an XAI-informed Bayesian hierarchical model. , 2020, , .		2
323	Explainable AI: Using Shapley Value to Explain Complex Anomaly Detection ML-Based Systems. Frontiers in Artificial Intelligence and Applications, 2020, , .	0.3	3
324	A SWOT Analysis of Human- and Machine Learning- Based Embryo Assessment. IEEE Access, 2020, 8, 227466-227481.	2.6	2
325	DeepNotebooks: Deep Probabilistic Models Construct Python Notebooks for Reporting Datasets. Communications in Computer and Information Science, 2020, , 28-43.	0.4	0
326	Evolutions of Artificial Intelligence: What issues for human activities and Human-Machine relationships at workÂ?. ActivitÃ©s, 2020, , .	0.1	9
327	Predicting Flow Rate Escalation for Pediatric Patients on High Flow Nasal Cannula Using Machine Learning. Frontiers in Pediatrics, 2021, 9, 734753.	0.9	2
329	Explainable machine learning model for predicting spontaneous bacterial peritonitis in cirrhotic patients with ascites. Scientific Reports, 2021, 11, 21639.	1.6	2
330	Using explainable machine learning to identify patients at risk of reattendance at discharge from emergency departments. Scientific Reports, 2021, 11, 21513.	1.6	6

#	Article	IF	Citations
338	Predicting Informativeness Of Semantic Triples. , 0, , .		1
340	Artificial intelligence in dry eye disease. Ocular Surface, 2022, 23, 74-86.	2.2	20
341	Explainable artificial intelligence in forensics: Realistic explanations for number of contributor predictions of DNA profiles. Forensic Science International: Genetics, 2022, 56, 102632.	1.6	10
342	â€˜Entanglementâ€™ â€“ A new dynamic metric to measure team flow. Social Networks, 2022, 70, 100-111.	1.3	4
343	Surgical data science â€“ from concepts toward clinical translation. Medical Image Analysis, 2022, 76, 102306.	7.0	107
344	Deep learning in bioengineering and biofabrication: a powerful technology boosting translation from research to clinics. Journal of 3D Printing in Medicine, 0, , .	1.0	1
345	A Machine Learning Approach for Predicting Real-time Risk of Intraoperative Hypotension in Traumatic Brain Injury. Journal of Neurosurgical Anesthesiology, 2021, Publish Ahead of Print, .	0.6	0
346	Explainable machine learning model for predicting the occurrence of postoperative malnutrition in children with congenital heart disease. Clinical Nutrition, 2022, 41, 202-210.	2.3	14
347	Physicochemical properties determining drug detection in skin. Clinical and Translational Science, 2022, 15, 761-770.	1.5	7
348	An ISHAP-based interpretation-model-guided classification method for malignant pulmonary nodule. Knowledge-Based Systems, 2022, 237, 107778.	4.0	13
349	Applications of AI in Healthcare and Assistive Technologies. Learning and Analytics in Intelligent Systems, 2022, , 11-31.	0.5	3
350	Continuous action deep reinforcement learning for propofol dosing during general anesthesia. Artificial Intelligence in Medicine, 2022, 123, 102227.	3.8	15
351	Analyzing Patient Trajectories With Artificial Intelligence. Journal of Medical Internet Research, 2021, 23, e29812.	2.1	16
352	The Artificial Intelligence Doctor: Considerations for the Clinical Implementation of Ethical AI. Acta Neurochirurgica Supplementum, 2022, 134, 257-261.	0.5	3
353	Interpretable machine learning to forecast hypoxia in a lagoon. Ecological Informatics, 2021, 66, 101480.	2.3	5
354	On-the-fly interpretable machine learning for rapid discovery of two-dimensional ferromagnets with high Curie temperature. CheM, 2022, 8, 769-783.	5.8	38
355	A machine learning model for lapse prediction in life insurance contracts. Expert Systems With Applications, 2022, 191, 116261.	4.4	12
356	Risk markers by sex for in-hospital mortality in patients with acute coronary syndrome: A machine learning approach. Informatics in Medicine Unlocked, 2021, 27, 100791.	1.9	2

#	Article	IF	Citations
357	Predicting the Travel Distance of Patients to Access Healthcare Using Deep Neural Networks. IEEE Journal of Translational Engineering in Health and Medicine, 2022, 10, 1-11.	2.2	2
358	Revealing Drivers of Haze Pollution by Explainable Machine Learning. Environmental Science and Technology Letters, 2022, 9, 112-119.	3.9	65
359	Postoperative delirium prediction using machine learning models and preoperative electronic health record data. BMC Anesthesiology, 2022, 22, 8.	0.7	30
360	Developing future human-centered smart cities: Critical analysis of smart city security, Data management, and Ethical challenges. Computer Science Review, 2022, 43, 100452.	10.2	62
361	Visualizing Transformers for NLP: A Brief Survey. , 2020, , .		26
363	An explainable XGBoostâ€"based approach towards assessing the risk of cardiovascular disease in patients with Type 2 Diabetes Mellitus. , 2020, , .		23
364	Visualizing functional network connectivity difference between middle adult and older subjects using an explainable machine-learning method. , 2020, , .		4
365	Detection of physical activity using machine learning methods. , 2020, , .		2
367	Effects of Intra-Abdominal Pressure on Lung Mechanics during Laparoscopic Gynaecology. , 2021, 2021, 2091-2094.		2
368	An Explainable Machine Learning Approach Reveals Prognostic Significance of Right Ventricular Dysfunction in Nonischemic Cardiomyopathy. JACC: Cardiovascular Imaging, 2022, 15, 766-779.	2.3	14
369	Explainable deep learning in healthcare: A methodological survey from an attribution view. WIREs Mechanisms of Disease, 2022, 14, e1548.	1.5	18
370	Machine Learning Prediction of Visual Outcome after Surgical Decompression of Sellar Region Tumors. Journal of Personalized Medicine, 2022, 12, 152.	1.1	2
372	Machine Learning Analysis of Literature Data on the Water Gas Shift Reaction toward Extrapolative Prediction of Novel Catalysts. Chemistry Letters, 2022, 51, 269-273.	0.7	7
373	Decomposition-Residuals Neural Networks: Hybrid System Identification Applied to Electricity Demand Forecasting. IEEE Open Access Journal of Power and Energy, 2022, 9, 241-253.	2.5	5
374	Using Explainable Machine Learning to Explore the Impact of Synoptic Reporting on Prostate Cancer. Algorithms, 2022, 15, 49.	1.2	4
375	Explainable artificial intelligence to predict the risk of side-specific extraprostatic extension in pre-prostatectomy patients. Canadian Urological Association Journal, 2022, 16, .	0.3	8
376	Machine Learning for Clinical Decision-Making: Challenges and Opportunities in Cardiovascular Imaging. Frontiers in Cardiovascular Medicine, 2021, 8, 765693.	1.1	26
377	Machine learning in perioperative medicine: a systematic review. Journal of Anesthesia, Analgesia and Critical Care, 2022, 2, .	0.5	15

#	Article	IF	Citations
379	Explainable AI forÂFinancial Forecasting. Lecture Notes in Computer Science, 2022, , 51-69.	1.0	5
380	Prediction and recommendation by machine learning through repetitive internal validation for hepatic veno-occlusive disease/sinusoidal obstruction syndrome and early death after allogeneic hematopoietic cell transplantation. Bone Marrow Transplantation, 2022, , .	1.3	3
381	Interpretable generative deep learning: an illustration with single cell gene expression data. Human Genetics, 2022, 141, 1481-1498.	1.8	8
382	Interpretable Machine Learning in Damage Detection Using Shapley Additive Explanations. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering, 2022, 8, .	0.7	7
383	Prediction of post-stroke urinary tract infection risk in immobile patients using machine learning: an observational cohort study. Journal of Hospital Infection, 2022, 122, 96-107.	1.4	14
384	Positional SHAP (PoSHAP) for Interpretation of machine learning models trained from biological sequences. PLoS Computational Biology, 2022, 18, e1009736.	1.5	17
385	Metabolic signatures of regulation by phosphorylation and acetylation. IScience, 2022, 25, 103730.	1.9	8
386	A Systematic Review of Explainable Artificial Intelligence in Terms of Different Application Domains and Tasks. Applied Sciences (Switzerland), 2022, 12, 1353.	1.3	91
387	Quantifying the sensitivity of seismic facies classification to seismic attribute selection: An explainable machine-learning study. Interpretation, 2022, 10, SE41-SE69.	0.5	8
388	Interpreting the optical properties of oxide glasses with machine learning and Shapely additive explanations. Journal of the American Ceramic Society, 2022, 105, 4046-4057.	1.9	17
389	Explainable prediction of N-V-related defects in nanodiamond using neural networks and Shapley values. Cell Reports Physical Science, 2022, 3, 100696.	2.8	7
390	A full pipeline of diagnosis and prognosis the risk of chronic diseases using deep learning and Shapley values: The Ravansar county anthropometric cohort study. PLoS ONE, 2022, 17, e0262701.	1.1	9
391	Machine learning model for predicting acute kidney injury progression in critically ill patients. BMC Medical Informatics and Decision Making, 2022, 22, 17.	1.5	19
392	Cost-Sensitive Boosting Pruning Trees for Depression Detection on Twitter. IEEE Transactions on Affective Computing, 2023, 14, 1898-1911.	5.7	15
393	Feature importance: Opening a soil-transmitted helminth machine learning model via SHAP. Infectious Disease Modelling, 2022, 7, 262-276.	1.2	21
394	A machine-learningâ€"based algorithm improves prediction of preeclampsia-associated adverse outcomes. American Journal of Obstetrics and Gynecology, 2022, 227, 77.e1-77.e30.	0.7	20
395	Differentiation of intestinal tuberculosis and Crohnâ€™s disease through an explainable machine learning method. Scientific Reports, 2022, 12, 1714.	1.6	13
396	An interpretable probabilistic model for short-term solar power forecasting using natural gradient boosting. Applied Energy, 2022, 309, 118473.	5.1	49

#	Article	IF	Citations
397	Power system load forecasting using mobility optimization and multi-task learning in COVID-19. Applied Energy, 2022, 310, 118303.	5.1	17
398	Prediction of concrete strengths enabled by missing data imputation and interpretable machine learning. Cement and Concrete Composites, 2022, 128, 104414.	4.6	55
399	Shapley Additive Explanations of Multigeometrical Variable Coupling Effect in Transonic Compressor. Journal of Engineering for Gas Turbines and Power, 2022, 144, .	0.5	10
400	Influential Factors for the Emission Inspection Results of Urban In-use Vehicles: From an Ensemble Learning Perspective. Journal of the Air and Waste Management Association, 2022, , .	0.9	0
401	Post-infarct cardiac remodeling predictions with machine learning. International Journal of Cardiology, 2022, 355, 1-4.	0.8	2
402	Medically-oriented design for explainable AI for stress prediction from physiological measurements. BMC Medical Informatics and Decision Making, 2022, 22, 38.	1.5	7
403	Predicting Parkinsonâ€™s Disease Progression: Evaluation of Ensemble Methods in Machine Learning. Journal of Healthcare Engineering, 2022, 2022, 1-17.	1.1	26
404	iAFPs-EnC-GA: Identifying antifungal peptides using sequential and evolutionary descriptors based multi-information fusion and ensemble learning approach. Chemometrics and Intelligent Laboratory Systems, 2022, 222, 104516.	1.8	37
405	Artificial intelligence and machine learning in precision medicine: A paradigm shift in big data analysis. Progress in Molecular Biology and Translational Science, 2022, , 57-100.	0.9	15
406	Investigation of a Web-Based Explainable AI Screening for Prolonged Grief Disorder. IEEE Access, 2022, 10, 41164-41185.	2.6	1
407	Explainable AI im Gesundheitswesen. , 2022, , 755-767.		0
408	Understanding the Compositional Control on Electrical, Mechanical, Optical, and Physical Properties of Inorganic Glasses with Interpretable Machine Learning. SSRN Electronic Journal, 0, , .	0.4	0
409	AIM in Oncology. , 2022, , 1263-1273.		0
410	Artificial Intelligence in Critical Care Medicine. Annual Update in Intensive Care and Emergency Medicine, 2022, , 353-367.	0.1	2
411	Understanding and controlling the formation of surface anion vacancies for catalytic applications. Catalysis Science and Technology, 2022, 12, 2398-2410.	2.1	2
412	Prediction of Endotracheal Tube Size in Pediatric Patients: Development and Validation of Machine Learning Models. SSRN Electronic Journal, 0, , .	0.4	0
413	Artificial Intelligence for Perioperative Medicine: Perioperative Intelligence. Anesthesia and Analgesia, 2023, 136, 637-645.	1.1	6
414	Automatically Explaining Machine Learning Predictions on Severe Chronic Obstructive Pulmonary Disease Exacerbations: Retrospective Cohort Study. JMIR Medical Informatics, 2022, 10, e33043.	1.3	2

#	Article	IF	Citations
415	Explainable Malware Detection Using Predefined Network Flow. , 2022, , .		6
416	Machine learning predicts cancer subtypes and progression from blood immune signatures. PLoS ONE, 2022, 17, e0264631.	1.1	5
417	Using amino acids co-occurrence matrices and explainability model to investigate patterns in dengue virus proteins. BMC Bioinformatics, 2022, 23, 80.	1.2	3
418	Explainable Machine Learning for Lung Cancer Screening Models. Applied Sciences (Switzerland), 2022, 12, 1926.	1.3	10
420	Circulating Proteome and Progression of Type 2 Diabetes. Journal of Clinical Endocrinology and Metabolism, 2022, 107, 1616-1625.	1.8	4
421	Artificial Intelligence in Critical Care Medicine. Critical Care, 2022, 26, 75.	2.5	41
422	The Perioperative Human Digital Twin. Anesthesia and Analgesia, 2022, 134, 885-892.	1.1	14
423	Asymmetric predictive relationships across histone modifications. Nature Machine Intelligence, 2022, 4, 288-299.	8.3	3
424	A Clinical Decision Support System for the Prediction of Quality of Life in ALS. Journal of Personalized Medicine, 2022, 12, 435.	1.1	6
425	Artificial intelligence in perioperative medicine: a narrative review. Korean Journal of Anesthesiology, 2022, 75, 202-215.	0.9	6
426	Enhancing adjoint optimization-based photonics inverse design with explainable machine learning. , 2022, , .		0
428	A hybrid machine learning/deep learning COVID-19 severity predictive model from CT images and clinical data. Scientific Reports, 2022, 12, 4329.	1.6	56
429	Construction and Interpretation of Prediction Model of Teicoplanin Trough Concentration via Machine Learning. Frontiers in Medicine, 2022, 9, 808969.	1.2	9
430	Collaborative Approach between Explainable Artificial Intelligence and Simplified Chemical Interactions to Explore Active Ligands for Cyclin-Dependent Kinase 2. ACS Omega, 2022, 7, 10372-10381.	1.6	9
431	How Validation Methodology Influences Human Activity Recognition Mobile Systems. Sensors, 2022, 22, 2360.	2.1	16
432	Temporal dynamics of clinical risk predictors for hospital-acquired acute kidney injury under different forecast time windows. Knowledge-Based Systems, 2022, 245, 108655.	4.0	4
433	Using Machine Learning to Develop and Validate an In-Hospital Mortality Prediction Model for Patients with Suspected Sepsis. Biomedicines, 2022, 10, 802.	1.4	4
434	Prediction of Chronic Obstructive Pulmonary Disease Exacerbation Events by Using Patient Self-reported Data in a Digital Health App: Statistical Evaluation and Machine Learning Approach. JMIR Medical Informatics, 2022, 10, e26499.	1.3	11

#	Article	IF	Citations
435	Multi-modality machine learning predicting Parkinsonâ€™s disease. Npj Parkinson's Disease, 2022, 8, 35.	2.5	44
436	Ensemble machine learning models for prediction of flyrock due to quarry blasting. International Journal of Environmental Science and Technology, 2022, 19, 8661-8676.	1.8	15
437	Bridging Fidelities to Predict Nanoindentation Tip Radii Using Interpretable Deep Learning Models. Jom, 0, , 1.	0.9	0
438	Machine-Learning Based Analysis of Liquid Water Path Adjustments to Aerosol Perturbations in Marine Boundary Layer Clouds Using Satellite Observations. Atmosphere, 2022, 13, 586.	1.0	4
439	Facilitating standardized COVID-19 suspicion prediction based on computed tomography radiomics in a multi-demographic setting. European Radiology, 2022, 32, 6384-6396.	2.3	4
440	A cost-aware framework for the development of AI models for healthcare applications. Nature Biomedical Engineering, 2022, 6, 1384-1398.	11.6	12
441	Intraoperative prediction of postanaesthesia care unit hypotension. British Journal of Anaesthesia, 2022, 128, 623-635.	1.5	9
442	Data-driven prediction of neutralizer pH and valve position towards precise control of chemical dosage in a wastewater treatment plant. Journal of Cleaner Production, 2022, 348, 131360.	4.6	23
443	Interpretable machine learning models for crime prediction. Computers, Environment and Urban Systems, 2022, 94, 101789.	3.3	30
444	A deep learning approach for detection of shallow anterior chamber depth based on the hidden features of fundus photographs. Computer Methods and Programs in Biomedicine, 2022, 219, 106735.	2.6	10
445	Interpretable machine-learning model with a collaborative game approach to predict yields and higher heating value of torrefied biomass. Energy, 2022, 249, 123676.	4.5	30
446	A data-augmentation approach to deriving long-term surface SO2 across Northern China: Implications for interpretable machine learning. Science of the Total Environment, 2022, 827, 154278.	3.9	10
447	Research and Application of Artificial Intelligence Based on Electronic Health Records of Patients With Cancer: Systematic Review. JMIR Medical Informatics, 2022, 10, e33799.	1.3	11
448	Learning Cellular Phenotypes through Supervision. , 2021, 2021, 3592-3595.		3
449	Deep learning approaches for data-independent acquisition proteomics. Expert Review of Proteomics, 2021, 18, 1031-1043.	1.3	10
450	Clinical Applicable AI System Based on Deep Learning Algorithm for Differentiation of Pulmonary Infectious Disease. Frontiers in Medicine, 2021, 8, 753055.	1.2	4
451	SWIFT: A deep learning approach to prediction of hypoxemic events in critically-Ill patients using SpO2 waveform prediction. PLoS Computational Biology, 2021, 17, e1009712.	1.5	5
453	Predicting anesthetic infusion events using machine learning. Scientific Reports, 2021, 11, 23648.	1.6	14

#	Article	IF	Citations
454	COVID-19 Prognostic Models: A Pro-con Debate for Machine Learning vs. Traditional Statistics. Frontiers in Digital Health, 2021, 3, 637944.	1.5	2
457	Addressing Stability in Classifier Explanations. , 2021, , .		0
458	Forecasting adverse surgical events using self-supervised transfer learning for physiological signals. Npj Digital Medicine, 2021, 4, 167.	5.7	25
459	Development and validation of a practical machine-learning triage algorithm for the detection of patients in need of critical care in the emergency department. Scientific Reports, 2021, 11, 24044.	1.6	8
461	Detecting Web-Based Attacks with SHAP and Tree Ensemble Machine Learning Methods. Applied Sciences (Switzerland), 2022, 12, 60.	1.3	2
462	A Machine Learning - Explainable AI approach to tropospheric dynamics analysis using Water Vapor Meteosat images. , 2021, , .		2
463	Enhancing operations management through smart sensors: measuring and improving well-being, interaction and performance ofÂlogistics workers. TQM Journal, 2022, 34, 303-329.	2.1	5
464	Explainable Boosting Machines for Slope Failure Spatial Predictive Modeling. Remote Sensing, 2021, 13, 4991.	1.8	20
465	Toward an Optimized Staging System for Pancreatic Ductal Adenocarcinoma: A Clinically Interpretable, Artificial Intelligenceâ€"Based Model. JCO Clinical Cancer Informatics, 2021, 5, 1220-1231.	1.0	5
466	Dissecting recurrent waves of pertussis across the boroughs of London. PLoS Computational Biology, 2022, 18, e1009898.	1.5	3
467	Machine learning combined with the PMF model reveal the synergistic effects of sources and meteorological factors on PM2.5 pollution. Environmental Research, 2022, 212, 113322.	3.7	28
468	Explainable Artificial Intelligence for Prediction of Complete Surgical Cytoreduction in Advanced-Stage Epithelial Ovarian Cancer. Journal of Personalized Medicine, 2022, 12, 607.	1.1	19
469	Implementation approaches and barriers for rule-based and machine learning-based sepsis risk prediction tools: a qualitative study. JAMIA Open, 2022, 5, ooac022.	1.0	15
470	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
474	Learning Predictive and Interpretable Timeseries Summaries from ICU Data.. AMIA ... Annual Symposium proceedings, 2021, 2021, 581-590.	0.2	0
475	How Different Explanations Impact Trust Calibration: The Case of Clinical Decision Support Systems. SSRN Electronic Journal, 0, , .	0.4	2
476	Application of Internet of Things Technology in Vocal Music Teaching Recording Equipment Assisted by Machine Learning. Wireless Communications and Mobile Computing, 2022, 2022, 1-10.	0.8	4
477	Enhancing Adjoint Optimization-Based Photonic Inverse Design with Explainable Machine Learning. ACS Photonics, 2022, 9, 1577-1585.	3.2	11

#	Article	IF	Citations
478	Artificial Intelligence in Perioperative Medicine: A Proposed Common Language With Applications to FDA-Approved Devices. Frontiers in Digital Health, 2022, 4, 872675.	1.5	2
479	A machine learning algorithm for electrocardiographic fQRS quantification validated on multi-center data. Scientific Reports, 2022, 12, 6783.	1.6	3
480	Mortality prediction of patients in intensive care units using machine learning algorithms based on electronic health records. Scientific Reports, 2022, 12, 7180.	1.6	11
481	Efficient analysis of COVID-19 clinical data using machine learning models. Medical and Biological Engineering and Computing, 2022, 60, 1881-1896.	1.6	20
482	Interpreted machine learning in fluid dynamics: explaining relaminarisation events in wall-bounded shear flows. Journal of Fluid Mechanics, 2022, 942, .	1.4	6
483	Explainable Fall Risk Prediction in Older Adults Using Gait and Geriatric Assessments. Frontiers in Digital Health, 2022, 4, .	1.5	9
484	Interpretable boosting tree ensemble method for multisource building fire loss prediction. Reliability Engineering and System Safety, 2022, 225, 108587.	5.1	11
485	Feature Importance in Gradient Boosting Trees with Cross-Validation Feature Selection. Entropy, 2022, 24, 687.	1.1	21
486	Precision diagnostic approach to predict 5-year risk for microvascular complications in type 1 diabetes. EBioMedicine, 2022, 80, 104032.	2.7	7
487	DoseGuide: A Graph-based Dynamic Time-aware Prediction System for Postoperative Pain. , 2021, , .		1
488	Artificial intelligence and anesthesia: a narrative review. Annals of Translational Medicine, 2022, 10, 528-528.	0.7	18
489	Biophysical Model: A Promising Method in the Study of the Mechanism of Propofol: A Narrative Review. Computational Intelligence and Neuroscience, 2022, 2022, 1-10.	1.1	0
491	Supervised Machine Learning-Based Decision Support for Signal Validation Classification. Drug Safety, 2022, 45, 583-596.	1.4	7
492	Clinical impact of vital sign abnormalities in patients admitted with acute exacerbation of chronic obstructive pulmonary disease: an observational study using continuous wireless monitoring. Internal and Emergency Medicine, 2022, 17, 1689-1698.	1.0	6
494	A Machine Learning Approach to Benchmarking Operators Performance: A New Perspective Utilizing Factor Contribution Analysis. SPE Journal, 2022, , 1-14.	1.7	1
495	Theoryâ€Guided Machine Learning to Predict the Performance of Noble Metal Catalysts in the Waterâ€Gas Shift Reaction. ChemCatChem, 2022, 14, .	1.8	4
497	Species distribution modeling and machine learning in assessing the potential distribution of freshwater zooplankton in Northern Italy. Ecological Informatics, 2022, 69, 101682.	2.3	6
498	Influential Factors of Intercity Patient Mobility and its Network Structure in China. SSRN Electronic Journal, 0, , .	0.4	0

#	Article	IF	Citations
499	Linked Open Government Data to Predict and Explain House Prices: The Case of Scottish Statistics Portal. SSRN Electronic Journal, 0, , .	0.4	1
500	Visualizing and Explaining Language Models. Studies in Computational Intelligence, 2022, , 213-237.	0.7	2
502	Interpretable Machine Learning Modeling for Ischemic Stroke Outcome Prediction. Frontiers in Neurology, 2022, 13, .	1.1	20
503	Evaluation guidelines for machine learning tools in the chemical sciences. Nature Reviews Chemistry, 2022, 6, 428-442.	13.8	49
504	Energy-Efficient Driving for Adaptive Traffic Signal Control Environment via Explainable Reinforcement Learning. Applied Sciences (Switzerland), 2022, 12, 5380.	1.3	6
505	Using Artificial Intelligence to Find the Optimal Margin Width in Hepatectomy for Colorectal Cancer Liver Metastases. JAMA Surgery, 2022, 157, e221819.	2.2	16
506	Clinically Interpretable Machine Learning Models for Early Prediction of Mortality in Older Patients with Multiple Organ Dysfunction Syndrome: An International Multicenter Retrospective Study. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2023, 78, 718-726.	1.7	4
507	Exact Shapley values for local and model-true explanations of decision tree ensembles. Machine Learning With Applications, 2022, 9, 100345.	3.0	2
508	Machine learning to refine prognostic and predictive nodal burden thresholds for post-operative radiotherapy in completely resected stage III-N2 non-small cell lung cancer. Radiotherapy and Oncology, 2022, 173, 10-18.	0.3	9
509	Invited Speech: Data Analytics and (Interpretable) Machine Learning for Social Good. , 2021, , .		1
510	Explainable Artificial Intelligence Methods in Combating Pandemics: A Systematic Review. IEEE Reviews in Biomedical Engineering, 2023, 16, 5-21.	13.1	31
511	Deep learning with weak annotation from diagnosis reports for detection of multiple head disorders: a prospective, multicentre study. The Lancet Digital Health, 2022, 4, e584-e593.	5.9	5
513	Prediction of SARS-CoV-2-positivity from million-scale complete blood counts using machine learning. Communications Medicine, 2022, 2, .	1.9	6
515	Practical early prediction of studentsâ€™ performance using machine learning and eXplainable AI. Education and Information Technologies, 2022, 27, 12855-12889.	3.5	8
517	Improving preeclampsia risk prediction by modeling pregnancy trajectories from routinely collected electronic medical record data. Npj Digital Medicine, 2022, 5, .	5.7	17
518	Explainable Machine Learning for Real-Time Hypoglycemia and Hyperglycemia Prediction and Personalized Control Recommendations. Journal of Diabetes Science and Technology, 2024, 18, 113-123.	1.3	6
519	Use artificial neural network to recommend the lumbar spinal endoscopic surgical corridor. Tzu Chi Medical Journal, 2022, .	0.4	0
520	Development of an Interpretable, Multivariable, Machine Learning Model for Clinical Decision Support on Mortality Prediction of People Admitted to Intensive Care Units. SSRN Electronic Journal, 0, , .	0.4	0

#	Article	IF	Citations
521	Improving the Performance of Outcome Prediction for Inpatients With Acute Myocardial Infarction Based on Embedding Representation Learned From Electronic Medical Records: Development and Validation Study. Journal of Medical Internet Research, 2022, 24, e37486.	2.1	2
522	The Role of Machine Learning in the Healthcare Sector: A Roadmap to the Potential Prospects. , 2022, , .		0
523	Risk assessment with gut microbiome and metabolite markers in NAFLD development. Science Translational Medicine, 2022, 14, .	5.8	50
524	RNA-SSNV: A Reliable Somatic Single Nucleotide Variant Identification Framework for Bulk RNA-Seq Data. Frontiers in Genetics, 0, 13, .	1.1	1
525	Getting over High-Dimensionality: How Multidimensional Projection Methods Can Assist Data Science. Applied Sciences (Switzerland), 2022, 12, 6799.	1.3	3
526	The identity of social impact venture capitalists: exploring social linguistic positioning and linguistic distinctiveness through text mining. Small Business Economics, 2023, 60, 1249-1280.	4.4	2
527	A Pipeline for the Implementation and Visualization of Explainable Machine Learning for Medical Imaging Using Radiomics Features. Sensors, 2022, 22, 5205.	2.1	12
528	Coastal water quality prediction based on machine learning with feature interpretation and spatio-temporal analysis. Environmental Modelling and Software, 2022, 155, 105458.	1.9	19
529	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
530	Spatial-temporal behavior of precipitation driven karst spring discharge in a mountain terrain. Journal of Hydrology, 2022, 612, 128116.	2.3	15
531	Machine learning algorithms identify demographics, dietary features, and blood biomarkers associated with stroke records. Journal of the Neurological Sciences, 2022, 440, 120335.	0.3	5
532	Dielectric constant prediction of pure organic liquids and their mixtures with water based on interpretable machine learning. Fluid Phase Equilibria, 2022, 561, 113545.	1.4	6
533	Collateral-Core Ratio as a Novel Predictor of Clinical Outcomes in Acute Ischemic Stroke. Translational Stroke Research, 2023, 14, 73-82.	2.3	1
534	A machine learning model based on ultrasound image features to assess the risk of sentinel lymph node metastasis in breast cancer patients: Applications of scikit-learn and SHAP. Frontiers in Oncology, 0, 12, .	1.3	14
535	About Challenges in Data Analytics and Machine Learning for Social Good. Information (Switzerland), 2022, 13, 359.	1.7	0
536	Forecasting the evolution of fast-changing transportation networks using machine learning. Nature Communications, 2022, 13, .	5.8	8
537	Evaluation of Machine Learning Algorithms and Explainability Techniques to Detect Hearing Loss From a Speech-in-Noise Screening Test. American Journal of Audiology, 2022, 31, 961-979.	0.5	11
538	Explainability methods for machine learning systems for multimodal medical datasets. , 2022, , .		1

#	Article	IF	Citations
539	ModelWise: Interactive Model Comparison for Model Diagnosis, Improvement and Selection. Computer Graphics Forum, 2022, 41, 97-108.	1.8	3
540	A machine learning model on Real World Data for predicting progression to Acute Respiratory Distress Syndrome (ARDS) among COVID-19 patients. PLoS ONE, 2022, 17, e0271227.	1.1	8
541	Bias or biology? Importance of model interpretation in machine learning studies from electronic health records. JAMIA Open, 2022, 5, .	1.0	4
542	Comparison of machine learning and stress concentration factorsâ€based fatigue failure prediction in smallâ€scale buttâ€welded joints. Fatigue and Fracture of Engineering Materials and Structures, 2022, 45, 3403-3417.	1.7	10
543	Use of Artificial Intelligence for Predicting Parameters of Sustainable Concrete and Raw Ingredient Effects and Interactions. Materials, 2022, 15, 5207.	1.3	18
544	Machine learning unveils composition-property relationships in chalcogenide glasses. Acta Materialia, 2022, 240, 118302.	3.8	18
545	Interpretable Passive Multi-Modal Sensor Fusion for Human Identification and Activity Recognition. Sensors, 2022, 22, 5787.	2.1	14
546	Oculomics for sarcopenia prediction: a machine learning approach toward predictive, preventive, and personalized medicine. EPMA Journal, 2022, 13, 367-382.	3.3	12
547	GCRS: A hybrid graph convolutional network for risk stratification in multiple myeloma cancer patients. Computers in Biology and Medicine, 2022, 149, 106048.	3.9	1
548	<scp>Thyâ€Wise</scp>: An interpretable machine learning model for the evaluation of thyroid nodules. International Journal of Cancer, 2022, 151, 2229-2243.	2.3	3
549	AP-1 transcription factor network explains diverse patterns of cellular plasticity in melanoma cells. Cell Reports, 2022, 40, 111147.	2.9	15
550	Ultrasound-based radiomics XGBoost model to assess the risk of central cervical lymph node metastasis in patients with papillary thyroid carcinoma: Individual application of SHAP. Frontiers in Oncology, 0, 12, .	1.3	6
551	The future of Cardiothoracic surgery in Artificial intelligence. Annals of Medicine and Surgery, 2022, 80, .	0.5	12
553	A systems approach towards remote health-monitoring in older adults: Introducing a zero-interaction digital exhaust. Npj Digital Medicine, 2022, 5, .	5.7	7
555	Precise reconstruction of the TME using bulk RNA-seq and a machine learning algorithm trained on artificial transcriptomes. Cancer Cell, 2022, 40, 879-894.e16.	7.7	48
556	Predicting outcome of patients with prolonged disorders of consciousness using machine learning models based on medical complexity. Scientific Reports, 2022, 12, .	1.6	20
557	A Machine Learning Approach to Identify the Importance of Novel Features for CRISPR/Cas9 Activity Prediction. Biomolecules, 2022, 12, 1123.	1.8	2
558	Machine Learning in Tissue Engineering. Tissue Engineering - Part A, 2023, 29, 2-19.	1.6	14

#	Article	IF	Citations
559	Sex trouble: Sex/gender slippage, sex confusion, and sex obsession in machine learning using electronic health records. Patterns, 2022, 3, 100534.	3.1	4
560	Human-Centered Explainable Artificial Intelligence: Automotive Occupational Health Protection Profiles in Prevention Musculoskeletal Symptoms. International Journal of Environmental Research and Public Health, 2022, 19, 9552.	1.2	5
561	Contributions of different components to the Net Present Value (NPV) of Haynesville Wells. , 2022, , .		0
562	Explainable Artificial Intelligence Helps in Understanding the Effect of Fibronectin on Survival of Sepsis. Cells, 2022, 11, 2433.	1.8	4
563	Prediction of lymph node metastasis in patients with breast invasive micropapillary carcinoma based on machine learning and SHapley Additive exPlanations framework. Frontiers in Oncology, 0, 12, .	1.3	4
564	Motive perception pathways to the release of personal information to healthcare organizations. BMC Medical Informatics and Decision Making, 2022, 22, .	1.5	1
565	Characterizing Data Scientistsâ€™ Mental Models of Local Feature Importance. , 2022, , .		0
566	Identifying uncertainty states during wayfinding in indoor environments: An EEG classification study. Advanced Engineering Informatics, 2022, 54, 101718.	4.0	10
567	A deep learning approach to predict the number of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si3.svg" display="inline" id="d1e920"><mml:mi>k</mml:mi></mml:math>-barriers for intrusion detection over a circular region using wireless sensor networks. Expert Systems With Applications, 2023, 211, 118588.	4.4	14
568	Influential factors of intercity patient mobility and its network structure in China. Cities, 2023, 132, 103975.	2.7	12
569	Residual Wavelon Convolutional Networks forÂCharacterization ofÂDisease Response onÂMRI. Lecture Notes in Computer Science, 2022, , 366-375.	1.0	0
570	Risk factors and machine learning model for predicting hospitalization outcomes in geriatric patients with dementia. Alzheimer's and Dementia: Translational Research and Clinical Interventions, 2022, 8, .	1.8	3
571	A Transferable Deep Learning Prognosis Model for Predicting Stroke Patients' Recovery in Different Rehabilitation Trainings. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 6003-6011.	3.9	6
572	A Graph-Based Multi-Modal Prediction System for Postoperative Pain. SSRN Electronic Journal, 0, , .	0.4	0
573	A Clinician-Friendly Machine Learning System to Predict Ovarian Response and Deploy Individualized Ovarian Stimulation Strategies in IVF. SSRN Electronic Journal, 0, , .	0.4	0
574	Improving First-time Attempts in Last-Mile Deliveries. SSRN Electronic Journal, 0, , .	0.4	1
575	A Blockchain-Empowered Federated Learning System and the Promising Use in Drug Discovery. Blockchain Technologies, 2022, , 113-139.	0.6	3
576	On the Explainability and Expressiveness of Function Approximation Methods in RL-Based Traffic Signal Control. , 2022, , .		1

#	Article	IF	Citations
577	Early prediction of learners at risk in self-paced education: A neural network approach. Expert Systems With Applications, 2023, 213, 118868.	4.4	5
578	Assuring the safety of AI-based clinical decision support systems: a case study of the AI Clinician for sepsis treatment. BMJ Health and Care Informatics, 2022, 29, e100549.	1.4	10
579	Machine learning techniques for explaining air pollution prediction. , 2022, , .		2
580	Measuring Model Understandability by means of Shapley Additive Explanations. , 2022, , .		2
582	Present and future of machine learning in breast surgery: systematic review. British Journal of Surgery, 2022, 109, 1053-1062.	0.1	5
584	Drivers of Spatiotemporal Variability in Drinking Water Quality in the United States. Environmental Science & Technology, 2022, 56, 12965-12974.	4.6	15
585	Systems Anesthesiology: Integrating Insights From Diverse Disciplines to Improve Perioperative Care. Anesthesia and Analgesia, 2022, 135, 673-677.	1.1	3
586	Diagnosis of hepatocellular carcinoma based on salivary protein glycopatterns and machine learning algorithms. Clinical Chemistry and Laboratory Medicine, 2022, 60, 1963-1973.	1.4	6
587	Deep learning for neural decoding in motor cortex. Journal of Neural Engineering, 2022, 19, 056021.	1.8	8
589	An Ensemble Approach for the Prediction of Diabetes Mellitus Using a Soft Voting Classifier with an Explainable AI. Sensors, 2022, 22, 7268.	2.1	20
590	Dense phenotyping from electronic health records enables machine learning-based prediction of preterm birth. BMC Medicine, 2022, 20, .	2.3	11
591	XAI4EEG: spectral and spatio-temporal explanation of deep learning-based seizure detection in EEG time series. Neural Computing and Applications, 2023, 35, 10051-10068.	3.2	6
592	Explainable machine learning analysis reveals sex and gender differences in the phenotypic and neurobiological markers of Cannabis Use Disorder. Scientific Reports, 2022, 12, .	1.6	5
593	Metabolomic profiles predict individual multidisease outcomes. Nature Medicine, 2022, 28, 2309-2320.	15.2	101
594	A Study on China coal Price forecasting based on CEEMDAN-GWO-CatBoost hybrid forecasting model under Carbon Neutral Target. Frontiers in Environmental Science, 0, 10, .	1.5	5
596	Machine Learning Algorithm Improves the Prediction of Transplant Hepatic Artery Stenosis or Occlusion. Ultrasound Quarterly, 0, Publish Ahead of Print, .	0.3	0
597	Precision Medicine Approaches with Metabolomics and Artificial Intelligence. International Journal of Molecular Sciences, 2022, 23, 11269.	1.8	6
598	An explainable machine learning method for assessing surgical skill in liposuction surgery. International Journal of Computer Assisted Radiology and Surgery, 0, , .	1.7	0

#	Article	IF	Citations
599	Beat-to-Beat Blood Pressure Estimation by Photoplethysmography and Its Interpretation. Sensors, 2022, 22, 7037.	2.1	7
600	Digesting Three-factor Model. Singapore Economic Review, 0, , 1-30.	0.9	1
602	Identification of arterial oxygen intermittency in oximetry data. Scientific Reports, 2022, 12, .	1.6	1
603	Evaluating and optimizing performance of publicâ€"private partnership projects using copula Bayesian network. Engineering, Construction and Architectural Management, 2024, 31, 290-323.	1.8	4
604	Climatic water balance forecasting with machine learning and deep learning models over Bangladesh. International Journal of Climatology, 0, , .	1.5	2
605	Handling missing data in well-log curves with a gated graph neural network. Geophysics, 2023, 88, D13-D30.	1.4	2
606	How the different explanation classes impact trust calibration: The case of clinical decision support systems. International Journal of Human Computer Studies, 2023, 169, 102941.	3.7	18
608	Patient-specific Hip Arthroplasty Dislocation Risk Calculator: An Explainable Multimodal Machine Learningâ€"based Approach. Radiology: Artificial Intelligence, 2022, 4, .	3.0	7
609	Prediction of Antiviral peptides using transform evolutionary & SHAP analysis based descriptors by incorporation with ensemble learning strategy. Chemometrics and Intelligent Laboratory Systems, 2022, 230, 104682.	1.8	18
610	Student Knowledge Prediction for Teacher-Student Interaction. Proceedings of the AAAI Conference on Artificial Intelligence, 2021, 35, 15560-15568.	3.6	4
611	Extending the Nested Model for User-Centric XAI: A Design Study on GNN-based Drug Repurposing. IEEE Transactions on Visualization and Computer Graphics, 2023, 29, 1266-1276.	2.9	10
612	Machine Learning Methods for Survival Analysis with Clinical and Transcriptomics Data of Breast Cancer. Methods in Molecular Biology, 2023, , 325-393.	0.4	3
613	Explainable AI and Its Applications in Healthcare. Intelligent Systems Reference Library, 2023, , 111-133.	1.0	1
614	Predicting Intraoperative Hypoxemia with Hybrid Inference Sequence Autoencoder Networks. , 2022, , .		2
615	Utilization of model-agnostic explainable artificial intelligence frameworks in oncology: a narrative review. Translational Cancer Research, 2022, 11, 3853-3868.	0.4	16
616	Multilevel Modeling of Joint Damage in Rheumatoid Arthritis. Advanced Intelligent Systems, 0, , 2200184.	3.3	0
617	Identifying Modifiable Predictors of COVID-19 Vaccine Side Effects: A Machine Learning Approach. Vaccines, 2022, 10, 1747.	2.1	10
618	Understanding the compositional control on electrical, mechanical, optical, and physical properties of inorganic glasses with interpretable machine learning. Acta Materialia, 2023, 242, 118439.	3.8	13

#	Article	IF	Citations
619	Comparison of Machine Learning Models Including Preoperative, Intraoperative, and Postoperative Data and Mortality After Cardiac Surgery. JAMA Network Open, 2022, 5, e2237970.	2.8	11
620	Mapping of machine learning approaches for description, prediction, and causal inference in the social and health sciences. Science Advances, 2022, 8, .	4.7	28
622	Prediction of endotracheal tube size in pediatric patients: Development and validation of machine learning models. Frontiers in Pediatrics, 0, 10, .	0.9	1
623	Tackling the Accuracy-Interpretability Trade-off: Interpretable Deep Learning Models for Satellite Image-based Real Estate Appraisal. ACM Transactions on Management Information Systems, 2023, 14, 1-24.	2.1	2
624	A new method to promptly evaluate spatial earthquake probability mapping using an explainable artificial intelligence (XAI) model. Gondwana Research, 2023, 123, 54-67.	3.0	5
625	Past, present, and future of the application of machine learning in cryptocurrency research. Research in International Business and Finance, 2022, 63, 101799.	3.1	22
626	Linked Open Government Data to Predict and Explain House Prices: The Case of Scottish Statistics Portal. Big Data Research, 2022, 30, 100355.	2.6	13
627	Study and validation of an explainable machine learning-based mortality prediction following emergency surgery in the elderly: A prospective observational study. International Journal of Surgery, 2022, 107, 106954.	1.1	4
628	Systematic analysis and prediction of genes associated with monogenic disorders on human chromosome X. Nature Communications, 2022, 13, .	5.8	14
629	Acinetobacter baumannii complex-caused bloodstream infection in ICU during a 12-year period: Predicting fulminant sepsis by interpretable machine learning. Frontiers in Microbiology, 0, 13, .	1.5	0
630	Bayesian inference modeling to rank response technologies in arctic marine oil spills. Marine Pollution Bulletin, 2022, 185, 114203.	2.3	3
631	Mortality Prediction of COVID-19 in Hospitalized Patients Using the 2020 Diagnosis Procedure Combination Administrative Database of Japan. Internal Medicine, 2023, 62, 201-213.	0.3	4
632	Evaluation of machine learning models as decision aids for anesthesiologists. Journal of Clinical Monitoring and Computing, 2023, 37, 155-163.	0.7	3
633	Beyond Accuracy: The Role of Mental Models in Human-AI Team Performance. , 0, 7, 2-11.		130
634	A Continuous Late-Onset Sepsis Prediction Algorithm for Preterm Infants Using Multi-Channel Physiological Signals From a Patient Monitor. IEEE Journal of Biomedical and Health Informatics, 2023, 27, 550-561.	3.9	6
635	Reflections and Projections. , 2022, , 539-551.		0
636	Integration of AI for Clinical Decision Support. , 2022, , 285-308.		2
637	Rail Break Prediction and Cause Analysis Using Imbalanced In-Service Train Data. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-14.	2.4	1

#	Article	IF	Citations
638	A general tree-based machine learning accelerator with memristive analog CAM. , 2022, , .		0
639	Community Food Environments, exploring a geomatic vision of regional scale. , 2022, , .		0
640	Mortality impact of low CAC density predominantly occurs in early atherosclerosis: explainable ML in the CAC consortium. Journal of Cardiovascular Computed Tomography, 2023, 17, 28-33.	0.7	1
641	Image prediction of disease progression for osteoarthritis by style-based manifold extrapolation. Nature Machine Intelligence, 2022, 4, 1029-1039.	8.3	6
642	Detection of Physical Activity Using Machine Learning Methods Based on Continuous Blood Glucose Monitoring and Heart Rate Signals. Sensors, 2022, 22, 8568.	2.1	1
643	Interpretation for Individual Brain Age Prediction Based on Gray Matter Volume. Brain Sciences, 2022, 12, 1517.	1.1	2
644	Machine learning for the prediction of post-ERCP Pancreatitis risk: A proof-of-concept study. Digestive and Liver Disease, 2022, , .	0.4	2
645	A TastePeptides-Meta system including an umami/bitter classification model Umami_YYDS, a TastePeptidesDB database and an open-source package Auto_Taste_ML. Food Chemistry, 2023, 405, 134812.	4.2	15
646	Hospitality order cancellation prediction from a profit-driven perspective. International Journal of Contemporary Hospitality Management, 2023, 35, 2084-2112.	5.3	14
647	Prediction of white-coat hypertension and white-coat uncontrolled hypertension using machine learning algorithm. European Heart Journal Digital Health, 2022, 3, 559-569.	0.7	3
648	Explainable Gated Recurrent Unit to explore the effect of co-exposure to multiple air pollutants and meteorological conditions on mental health outcomes. Environment International, 2023, 171, 107689.	4.8	3
649	Karstified zone interpretation using deep learning algorithms: Convolutional neural networks applications and model interpretability with explainable AI. Computers and Geosciences, 2023, 171, 105281.	2.0	4
650	General short-term load forecasting based on multi-task temporal convolutional network in COVID-19. International Journal of Electrical Power and Energy Systems, 2023, 147, 108811.	3.3	4
651	Development and validation of a machine learning-augmented algorithm for diabetes screening in community and primary care settings: A population-based study. Frontiers in Endocrinology, 0, 13, .	1.5	1
653	Highly interpretable machine learning framework for prediction of mechanical properties of nickel based superalloys. Physical Review Materials, 2022, 6, .	0.9	2
654	Clinical Risk Factor Prediction for Second Primary Skin Cancer: A Hospital-Based Cancer Registry Study. Applied Sciences (Switzerland), 2022, 12, 12520.	1.3	1
655	Predicting Intensive Care Delirium with Machine Learning: Model Development and External Validation. Anesthesiology, 2023, 138, 299-311.	1.3	8
656	Interpretable artificial intelligence model for accurate identification of medical conditions using immune repertoire. Briefings in Bioinformatics, 2023, 24, .	3.2	2

#	Article	IF	Citations
657	Enhanced natural releases of mercury in response to the reduction in anthropogenic emissions during the COVID-19 lockdown by explainable machine learning. Atmospheric Chemistry and Physics, 2022, 22, 15851-15865.	1.9	2
658	Future perspectives of higher standards for trauma teams' organization, support, and evaluation. European Journal of Trauma and Emergency Surgery, 0, , .	0.8	0
659	Profiling lariat intermediates reveals genetic determinants of early and late co-transcriptional splicing. Molecular Cell, 2022, 82, 4681-4699.e8.	4.5	12
660	Insights and Heuristics for Predicting Diffusion Rates of Chemical Warfare Agents in Zirconium Metalâ€"Organic Frameworks. ACS Applied Materials & Interfaces, 2022, 14, 55608-55615.	4.0	2
661	Developing and optimizing a machine learning predictive model for post-thrombotic syndrome in a longitudinal cohort of patients with proximal deep venous thrombosis. Journal of Vascular Surgery: Venous and Lymphatic Disorders, 2023, 11, 555-564.e5.	0.9	1
663	Machine learning models exploring characteristic single-nucleotide signatures in yellow fever virus. PLoS ONE, 2022, 17, e0278982.	1.1	0
664	Interpreting tree ensemble machine learning models with endoR. PLoS Computational Biology, 2022, 18, e1010714.	1.5	1
665	Developing Transdiagnostic Internalizing Disorder Prognostic Indices for Outpatient Cognitive Behavioral Therapy. Behavior Therapy, 2023, 54, 461-475.	1.3	0
666	Ensemble deep learning enhanced with self-attention for predicting immunotherapeutic responses to cancers. Frontiers in Immunology, 0, 13, .	2.2	32
667	Computational prediction and characterization of cell-type-specific and shared binding sites. Bioinformatics, 2023, 39, .	1.8	6
668	Application of Artificial Intelligence in Oral and Maxillofacial Anesthesia. , 2023, , 327-338.		0
669	Predicting Postoperative Anterior Chamber Angle for Phakic Intraocular Lens Implantation Using Preoperative Anterior Segment Metrics. Translational Vision Science and Technology, 2023, 12, 10.	1.1	2
670	Machine learning identification of atmospheric gases by mapping the graphene-molecule van der waals complex bonding evolution. Sensors and Actuators B: Chemical, 2023, 380, 133383.	4.0	0
671	A Comparison of Spatial and Nonspatial Methods in Statistical Modeling of NO2: Prediction Accuracy, Uncertainty Quantification, and Model Interpretation. Geographical Analysis, 2023, 55, 703-727.	1.9	1
672	Explainable machine learning model for predicting furosemide responsiveness in patients with oliguric acute kidney injury. Renal Failure, 2023, 45, .	0.8	3
673	Twenty-eight-day in-hospital mortality prediction for elderly patients with ischemic stroke in the intensive care unit: Interpretable machine learning models. Frontiers in Public Health, 0, 10, .	1.3	2
674	Machine Learning Models for the Automatic Detection of Exercise Thresholds in Cardiopulmonary Exercising Tests: From Regression to Generation to Explanation. Sensors, 2023, 23, 826.	2.1	4
675	AFP-MFL: accurate identification of antifungal peptides using multi-view feature learning. Briefings in Bioinformatics, 2023, 24, .	3.2	8

#	Article	IF	Citations
676	Artificial Intelligence-Assisted Prediction of Effluent Phosphorus in a Full-Scale Wastewater Treatment Plant with Missing Phosphorus Input and Removal Data. ACS ES&T Water, 2024, 4, 880-889.	2.3	7
677	Machine learning models to accelerate the design of polymeric long-acting injectables. Nature Communications, 2023, 14, .	5.8	35
678	Developing smart city services using intentâ€aware recommendation systems: A survey. Transactions on Emerging Telecommunications Technologies, 2023, 34, .	2.6	2
679	Signal Peptide Efficiency: From High-Throughput Data to Prediction and Explanation. ACS Synthetic Biology, 2023, 12, 390-404.	1.9	14
680	Validating and Utilizing Machine Learning Methods to Investigate the Impacts of Synthesis Parameters in Gold Nanoparticle Synthesis. Journal of Physical Chemistry C, 2023, 127, 1117-1125.	1.5	5
681	Informing antimicrobial stewardship with explainable AI. , 2023, 2, e0000162.		5
682	Evaluation of Local Interpretable Model-Agnostic Explanation and Shapley Additive Explanation for Chronic Heart Disease Detection. Proceedings of Engineering and Technology Innovation, 0, 23, 48-59.	0.0	3
683	Application of machine learning algorithms to evaluate the influence of various parameters on the flexural strength of ultra-high-performance concrete. Frontiers in Materials, 0, 9, .	1.2	3
684	Reducing high-risk glucose forecasting errors by evolving interpretable models for Type 1 diabetes. Applied Soft Computing Journal, 2023, 134, 110012.	4.1	4
685	BIM-based solution to enhance the performance of public-private partnership construction projects using copula bayesian network. Expert Systems With Applications, 2023, 216, 119501.	4.4	4
686	TruVR: Trustworthy Cybersickness Detection using Explainable Machine Learning. , 2022, , .		4
688	Feasibility of machine learning-based modeling and prediction using multiple centers data to assess intrahepatic cholangiocarcinoma outcomes. Annals of Medicine, 2023, 55, 215-223.	1.5	7
689	Optimal mode of delivery in pregnancy: Individualized predictions using national vital statistics data. , 2022, 1, e0000166.		2
690	A methodology to design, develop, and evaluate machine learning models for predicting dropout in school systems: the case of Chile. Education and Information Technologies, 2023, 28, 10103-10149.	3.5	6
691	Real-world data to build explainable trustworthy artificial intelligence models for prediction of immunotherapy efficacy in NSCLC patients. Frontiers in Oncology, 0, 12, .	1.3	2
692	A Machine Learning Approach to Support Urgent Stroke Triage Using Administrative Data and Social Determinants of Health at Hospital Presentation: Retrospective Study. Journal of Medical Internet Research, 0, 25, e36477.	2.1	1
693	Interpretable boosted-decision-tree analysis for the Majorana Demonstrator. Physical Review C, 2023, 107, .	1.1	0
694	Prediction of Serious Intracranial Hypertension from Low-Resolution Neuromonitoring in Traumatic Brain Injury: An Explainable Machine Learning Approach. IEEE Journal of Biomedical and Health Informatics, 2023, , 1-11.	3.9	1

#	Article	IF	Citations
695	Pandemic Effect of COVID-19: Identification, Present Scenario, and Preventive Measures Using Machine Learning Model. Signals and Communication Technology, 2023, , 1-18.	0.4	0
697	Analysing multi-perspective patient-related data during laparoscopic gynaecology procedures. Scientific Reports, 2023, 13, .	1.6	1
698	Development of a Novel Intra-Operative Score to Record Diseasesâ€™ Anatomic Fingerprints (ANAFI Score) for the Prediction of Complete Cytoreduction in Advanced-Stage Ovarian Cancer by Using Machine Learning and Explainable Artificial Intelligence. Cancers, 2023, 15, 966.	1.7	4
699	Machine learning for longitudinal mortality risk prediction in patients with malignant neoplasm in SÃ£o Paulo, Brazil. Artificial Intelligence in the Life Sciences, 2023, 3, 100061.	1.6	0
700	Causal Inference for Personalized Treatment Effect Estimation for given Machine Learning Models. , 2022, , .		0
701	A Verifiable Estimation and Parametric Inference of the Nonlinear Phillips Curve Using Neural Networks. SSRN Electronic Journal, 0, , .	0.4	0
702	Potential uses of AI for perioperative nursing handoffs: a qualitative study. JAMIA Open, 2023, 6, .	1.0	0
703	Machine learning-based prediction of clinical outcomes after first-ever ischemic stroke. Frontiers in Neurology, 0, 14, .	1.1	5
704	Toward characterizing cardiovascular fitness using machine learning based on unobtrusive data. PLoS ONE, 2023, 18, e0282398.	1.1	2
705	Machine Learning Models to Forecast Outcomes of Pituitary Surgery: A Systematic Review in Quality of Reporting and Current Evidence. Brain Sciences, 2023, 13, 495.	1.1	1
706	Machine learning-based in-hospital mortality risk prediction tool for intensive care unit patients with heart failure. Frontiers in Cardiovascular Medicine, 0, 10, .	1.1	0
707	Explainable Machine-Learning Predictions for Peak Ground Acceleration. Applied Sciences (Switzerland), 2023, 13, 4530.	1.3	0
708	An explainable decision support system for predictive process analytics. Engineering Applications of Artificial Intelligence, 2023, 120, 105904.	4.3	4
709	Explainable machine learning models based on multimodal time-series data for the early detection of Parkinsonâ€™s disease. Computer Methods and Programs in Biomedicine, 2023, 234, 107495.	2.6	11
711	Recent advances in cardiac anaesthesia. Indian Journal of Anaesthesia, 2023, 67, 78.	0.3	3
712	An Interpretable Conditional Augmentation Classification Approach forÂImbalanced EHRs Mortality Prediction. Communications in Computer and Information Science, 2022, , 408-422.	0.4	0
713	Feature construction using explanations of individual predictions. Engineering Applications of Artificial Intelligence, 2023, 120, 105823.	4.3	1
714	Explainable AI Applied to the Analysis of the Climatic Behavior of 11 Years of Meteosat Water Vapor Images. , 2022, , .		0

#	Article	IF	Citations
715	Predictive model of transcriptional elongation control identifies trans regulatory factors from chromatin signatures. Nucleic Acids Research, 2023, 51, 1608-1624.	6.5	1
716	Explainable Machine Learning Analysis of Right Heart Failure After Left Ventricular Assist Device Implantation. ASAIO Journal, 2023, 69, 417-423.	0.9	4
717	Informing clinical assessment by contextualizing post-hoc explanations of risk prediction models in type-2 diabetes. Artificial Intelligence in Medicine, 2023, 137, 102498.	3.8	5
718	Combinations of medicines in patients with polypharmacy aged 65â€"100 in primary care: Large variability in risks of adverse drug related and emergency hospital admissions. PLoS ONE, 2023, 18, e0281466.	1.1	3
720	Model Personalization with Static and Dynamic Patients' Data. , 2022, , .		0
721	Explainability of High Energy Physics events classification using SHAP. Journal of Physics: Conference Series, 2023, 2438, 012082.	0.3	1
722	Explainable machine learning for public policy: Use cases, gaps, and research directions. Data & Policy, 2023, 5, .	1.0	7
723	The Inner Loop of Collective Humanâ€"Machine Intelligence. Topics in Cognitive Science, 0, , .	1.1	0
724	IDP-PGFE: an interpretable disruption predictor based on physics-guided feature extraction. Nuclear Fusion, 2023, 63, 046024.	1.6	6
725	An Empirical Survey on Explainable AI Technologies: Recent Trends, Use-Cases, and Categories from Technical and Application Perspectives. Electronics (Switzerland), 2023, 12, 1092.	1.8	10
726	Short-term outcome prediction for myasthenia gravis: an explainable machine learning model. Therapeutic Advances in Neurological Disorders, 2023, 16, 175628642311549.	1.5	4
727	Comparison of oxygen supplementation in very preterm infants: Variations of oxygen saturation features and their application to hypoxemic episode based risk stratification. Frontiers in Pediatrics, 0, 11, .	0.9	0
728	Robust prediction of nonhome discharge following elective anterior cervical discectomy and fusion using explainable machine learning. European Spine Journal, 0, , .	1.0	0
729	Predictive Models for Health Deterioration: Understanding Disease Pathways for Personalized Medicine. Annual Review of Biomedical Engineering, 2023, 25, .	5.7	1
730	Machine learning-based prediction of intraoperative hypoxemia for pediatric patients. PLoS ONE, 2023, 18, e0282303.	1.1	3
731	Contributions of various driving factors to air pollution events: Interpretability analysis from Machine learning perspective. Environment International, 2023, 173, 107861.	4.8	9
732	Predicting Crash Injury Severity in Smart Cities: a Novel Computational Approach with Wide and Deep Learning Model. International Journal of Intelligent Transportation Systems Research, 2023, 21, 240-258.	0.6	1
733	Textual Feature Extraction Using Ant Colony Optimization for Hate Speech Classification. Big Data and Cognitive Computing, 2023, 7, 45.	2.9	4

#	Article	IF	Citations
734	Painting the Black Box White: Experimental Findings from Applying XAI to an ECG Reading Setting. Machine Learning and Knowledge Extraction, 2023, 5, 269-286.	3.2	4
736	A Federated Learning-Inspired Evolutionary Algorithm: Application to Glucose Prediction. Sensors, 2023, 23, 2957.	2.1	2
737	Advancing Human-AI Complementarity: The Impact of User Expertise and Algorithmic Tuning on Joint Decision Making. ACM Transactions on Computer-Human Interaction, 2023, 30, 1-29.	4.6	2
738	Machine Learningâ€"Based Prediction of Attention-Deficit/Hyperactivity Disorder and Sleep Problems With Wearable Data in Children. JAMA Network Open, 2023, 6, e233502.	2.8	5
739	Machine Learning and Artificial Intelligence in Surgical Research. Surgical Clinics of North America, 2023, 103, 299-316.	0.5	1
740	Explainable machine learning for predicting the band gaps of ABX3 perovskites. Materials Science in Semiconductor Processing, 2023, 161, 107427.	1.9	4
741	XML-GBM lung: An explainable machine learning-based application for the diagnosis of lung cancer. Journal of Pathology Informatics, 2023, 14, 100307.	0.8	2
742	Cloud and Machine Learning Based Solutions for Healthcare and Prevention. , 2023, , 163-192.		0
743	An explainable machine learning-driven proposal of pulmonary fibrosis biomarkers. Computational and Structural Biotechnology Journal, 2023, 21, 2305-2315.	1.9	1
744	Predicting and understanding human action decisions during skillful joint-action using supervised machine learning and explainable-AI. Scientific Reports, 2023, 13, .	1.6	1
745	Auto-Gait. , 2023, 7, 1-19.		0
746	Assessing the utility of a sliding-windows deep neural network approach for risk prediction of trauma patients. Scientific Reports, 2023, 13, .	1.6	1
747	Improved GNNs for Logâ€¯D_{7.4} Prediction by Transferring Knowledge from Low-Fidelity Data. Journal of Chemical Information and Modeling, 0, , .	2.5	2
748	Estimating individual treatment effects on COPD exacerbations by causal machine learning on randomised controlled trials. Thorax, 2023, 78, 983-989.	2.7	4
749	Prediction of preoperative in-hospital mortality rate in patients with acute aortic dissection by machine learning: a two-centre, retrospective cohort study. BMJ Open, 2023, 13, e066782.	0.8	2
750	Machine learning-based prediction of cerebral hemorrhage in patients with hemodialysis: A multicenter, retrospective study. Frontiers in Neurology, 0, 14, .	1.1	0
751	Data-Driven Early Diagnosis of Chronic Kidney Disease: Development and Evaluation of an Explainable AI Model. IEEE Access, 2023, 11, 38359-38369.	2.6	4
752	A multi-institutional study using artificial intelligence to provide reliable and fair feedback to surgeons. Communications Medicine, 2023, 3, .	1.9	14

#	Article	IF	Citations
753	Prediction of Brain Metastases Development in Patients With Lung Cancer by Explainable Artificial Intelligence From Electronic Health Records. JCO Clinical Cancer Informatics, 2023, , .	1.0	0
754	Tree-Based Risk Factor Identification and Stroke Level Prediction in Stroke Cohort Study. BioMed Research International, 2023, 2023, 1-10.	0.9	1
755	Harmonizing across datasets to improve the transferability of drug combination prediction. Communications Biology, 2023, 6, .	2.0	1
756	Identifying the engagement of a brain network during a targeted tDCS-fMRI experiment using a machine learning approach. PLoS Computational Biology, 2023, 19, e1011012.	1.5	1
757	Prediction of Amyloid Proteins Using Embedded Evolutionary & Ensemble Feature Selection Based Descriptors With eXtreme Gradient Boosting Model. IEEE Access, 2023, 11, 39024-39036.	2.6	9
758	A case study of improving a non-technical losses detection system through explainability. Data Mining and Knowledge Discovery, 0, , .	2.4	1
759	A Survey on Machine Learning Approaches in Cryptocurrency: Challenges and Opportunities. , 2023, , .		1
760	Visualizing Research on Explainable Artificial Intelligence for Medical and Healthcare. , 2023, , .		0
761	Artificial intelligence in critical illness and its impact on patient care: a comprehensive review. Frontiers in Medicine, 0, 10, .	1.2	7
762	Artificial intelligence in healthcare. , 2023, , 601-618.		0
771	Machine Learning Based FPSO Topsides Weight Estimation for a Project on an Early Stage. , 2023, , .		0
782	Machine learning in rare disease. Nature Methods, 2023, 20, 803-814.	9.0	10
785	Enhancing the Admissions Process for Engineering Baccalaureate Programs: A Machine Learning Approach to Developing a Valid and Reliable Examination. , 2023, , .		0
789	Editorial: Insights into structural and functional organization of the brain: evidence from neuroimaging and non-invasive brain stimulation techniques. Frontiers in Psychiatry, 0, 14, .	1.3	22
810	ErklÃrbarkeit als SchlÃ¼ssel fÃ¼r den verantwortungsvollen Umgang mit KI. , 2023, , 83-117.		0
811	Algorithmic fairness in artificial intelligence for medicine and healthcare. Nature Biomedical Engineering, 2023, 7, 719-742.	11.6	35
819	Portrayal: Leveraging NLP and Visualization for Analyzing Fictional Characters. , 2023, , .		0
822	Subspace-Classification Approach for Simulated Tuple Class Assignment. , 2023, , .		0

#	Article	IF	Citations
830	Frontotemporal Dementia Detection Model Based onÂExplainable Machine Learning Approach. IFIP Advances in Information and Communication Technology, 2023, , 230-242.	0.5	0
839	Synergies Between Case-Based Reasoning and Deep Learning for Survival Analysis in Oncology. Lecture Notes in Computer Science, 2023, , 19-33.	1.0	0
853	Artificial intelligence in the prediction of progression and outcomes in viral hepatitis. , 2023, , 155-177.		0
859	Disparity ofÂAbstract Color Representations inÂConvolutional Networks. Lecture Notes in Networks and Systems, 2024, , 331-341.	0.5	0
861	Scientific discovery in the age of artificial intelligence. Nature, 2023, 620, 47-60.	13.7	113
888	A Brief Review of Explainable Artificial Intelligence Reviews and Methods. , 2023, , 151-167.		0
893	Artificial Intelligence in Surgery, Surgical Subspecialties, and Related Disciplines. Artificial Intelligence, 0, , .	2.0	0
896	Artificial intelligence in cardiothoracic surgery: current applications and future perspectives. , 2024, , 217-234.		1
898	Explainable Prediction of Alternative Medicine Outcome using Machine Learning and Shapley Values. , 2023, , .		0
905	Interpretable Models For ML-Based Classification of Obesity. , 2023, , .		0
917	Towards aÂComprehensive Human-Centred Evaluation Framework forÂExplainable AI. Communications in Computer and Information Science, 2023, , 183-204.	0.4	2
918	Artificial intelligence and its clinical application in Anesthesiology: a systematic review. Journal of Clinical Monitoring and Computing, 0, , .	0.7	3
919	Retention is All You Need. , 2023, , .		0
939	Artificial Intelligence in Prediction for Intraoperative Hypotension and Hypoxemia. , 2023, , 55-60.		0
948	ExpLIMEable: A Visual Analytics Approach for Exploring LIME. , 2023, , .		0
959	Anesthetic drug discovery with computer-aided drug design and machine learning. , 2024, 2, .		0
969	Recent developments in machine learning modeling methods for hypertension treatment. Hypertension Research, 2024, 47, 700-707.	1.5	1
978	Use of Edge Computing and IoT To Create A Smart and Efficient Irrigation System. , 2023, , .		0

#	Article	IF	Citations
979	Employing Convolutional Neural Network for IoT Healthcare Attack Detection in Intensive Care Unit. , 2023, , .		0
980	Deep Learning based Smart American Sign Language Detection in Alphabets. , 2023, , .		0
981	A System Based on AI and M1 Enhanced to Investigate Physiological Markers for User Forecasting Decision-Making. , 2023, , .		0
982	Systematic Review of AIS Based Trajectory Prediction Models. , 2023, , .		0
983	A Review Study on Feedback Models for Information Retrieval. , 2023, , .		0
984	Testing of Aircraft Failure using Machine Learning Algorithms. , 2023, , .		0
985	Prediction of Human Misbehavior Detection From CCTV Video Recording Using Convolutional Neural Network Compared With VGG-16 Method. , 2023, , .		0
986	Monkeypox and other Skin Conditions Detection Utilizing CNN with VGG16 Transfered Language. , 2023, , .		0
987	A Blockchain Approach for Securing Certification Management System. , 2023, , .		0
988	Carrying out Encryption and Decryption in a Multi-Tenant Cloud Environment. , 2023, , .		0
989	Explainable Machine Learning for Turbojet Engine Prognostic Health Management. , 2024, , .		0
992	A Study of Fatty Liver Prediction Model Based on XGBoost and SHAP. , 2023, , .		0
994	Reviewing Explainable Artificial Intelligence Towards Better Air Quality Modelling. Progress in IS, 2024, , 3-19.	0.5	0
998	Shapley value: from cooperative game to explainable artificial intelligence. Autonomous Intelligent Systems, 2024, 4, .	2.0	0
1009	The Big Three: A Practical Framework for Designing Decision Support Systems in Sports and an Application for Basketball. Communications in Computer and Information Science, 2024, , 103-116.	0.4	0
1019	Artificial Intelligence and Machine Learning in Healthcare. Advances in Bioinformatics and Biomedical Engineering Book Series, 2024, , 12-46.	0.2	0