

# Selected techniques for data mining in medicine

Artificial Intelligence in Medicine

16, 3-23

DOI: [10.1016/s0933-3657\(98\)00062-1](https://doi.org/10.1016/s0933-3657(98)00062-1)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Machine Learning for Data Mining in Medicine. Lecture Notes in Computer Science, 1999, , 47-62.	1.3	30
2	Sharing professional knowledge in the health care sector. International Journal of Healthcare Technology and Management, 2000, 2, 456.	0.1	0
3	Automated Sleep Stage Scoring Using Hybrid Rule- and Case-Based Reasoning. Journal of Biomedical Informatics, 2000, 33, 330-349.	0.7	72
4	Multiple signal integration by decision tree induction to detect artifacts in the neonatal intensive care unit. Artificial Intelligence in Medicine, 2000, 19, 189-202.	6.5	42
5	An Aphasia Database on the Internet: A Model for Computer-Assisted Analysis in Aphasiology. Brain and Language, 2000, 75, 390-398.	1.6	21
6	Teaching soft computing in medicine: an interdisciplinary experiment. , 0, , .		0
7	Improving data collection and information retrieval for monitoring sexual health. International Journal of STD and AIDS, 2001, 12, 8-13.	1.1	2
8	Case-oriented computer-based-training in radiology: concept, implementation and evaluation. BMC Medical Education, 2001, 1, 5.	2.4	18
9	Data mining for indicators of early mortality in a database of clinical records. Artificial Intelligence in Medicine, 2001, 22, 215-231.	6.5	88
10	Using modern IT tools to assess the awareness of MDs on radiation issues and plan a continuous education programme. Health Informatics Journal, 2001, 7, 146-151.	2.1	1
11	A neural network approach to breast cancer diagnosis as a constraint satisfaction problem. Medical Physics, 2001, 28, 804-811.	3.0	35
12	Predicting recovery in patients suffering from traumatic brain injury by using admission variables and physiological data: a comparison between decision tree analysis and logistic regression. Journal of Neurosurgery, 2002, 97, 326-336.	1.6	191
14	Interactive decision support in hepatic surgery. BMC Medical Informatics and Decision Making, 2002, 2, 5.	3.0	6
15	Complexity of biomedical data models in cardiology: the Intranet-based AF registry. Computer Methods and Programs in Biomedicine, 2002, 68, 49-61.	4.7	12
16	Logistic-based patient grouping for multi-disciplinary treatment. Artificial Intelligence in Medicine, 2002, 26, 87-107.	6.5	24
17	Active subgroup mining: a case study in coronary heart disease risk group detection. Artificial Intelligence in Medicine, 2003, 28, 27-57.	6.5	70
18	Inductive bias strength in knowledge-based neural networks: application to magnetic resonance spectroscopy of breast tissues. Artificial Intelligence in Medicine, 2003, 28, 121-140.	6.5	4
19	Classification and regression tree analysis for molecular descriptor selection and retention prediction in chromatographic quantitative structureâ€“retention relationship studies. Journal of Chromatography A, 2003, 988, 261-276.	3.7	78

#	ARTICLE	IF	CITATIONS
20	A new method for mining optimal formula from curative data of new Chinese medicine. , 0, , .		0
21	Knowledge discovery in support of early diagnosis of hepatocellular carcinoma. , 0, , .		1
22	Mining hepatitis data with temporal abstraction. , 2003, , .		20
23	Domain-Specific Particularities of Data Mining: Lessons Learned. Lecture Notes in Computer Science, 2004, , 235-242.	1.3	4
24	Clinical validation of an automated system for supporting the early diagnosis of melanoma. Skin Research and Technology, 2004, 10, 184-192.	1.6	15
25	Interpretability and learning in neuro-fuzzy systems. Fuzzy Sets and Systems, 2004, 147, 17-38.	2.7	104
26	Polynomial-fuzzy decision tree structures for classifying medical data. Knowledge-Based Systems, 2004, 17, 81-87.	7.1	27
27	Genetic influence on variability in human acute experimental pain sensitivity associated with gender, ethnicity and psychological temperament. Pain, 2004, 109, 488-496.	4.2	355
28	Medical knowledge discovery systems: data abstraction and performance measurement. Knowledge Management Research and Practice, 2004, 2, 95-102.	4.1	3
29	Detecting and Adapting to Concept Drift in Bioinformatics. Lecture Notes in Computer Science, 2004, , 161-168.	1.3	4
30	Selection of orthogonal reversed-phase HPLC systems by univariate and auto-associative multivariate regression trees. Journal of Chromatography A, 2005, 1096, 187-198.	3.7	12
31	Predicting breast cancer survivability: a comparison of three data mining methods. Artificial Intelligence in Medicine, 2005, 34, 113-127.	6.5	890
32	Data mining in health and medical information. Annual Review of Information Science & Technology, 2005, 38, 331-369.	2.2	22
33	A Novel and Efficient Neuro-Fuzzy Classifier for Medical Diagnosis. , 2006, , .		2
34	Data mining in medical time series. Biomedizinische Technik, 2006, 51, 288-293.	0.8	11
35	Inducing Comprehensibility In Evolutionary Polynomial-Fuzzy Classification Models. , 2006, , .		0
37	Data Mining Medical Information. International Journal of Healthcare Information Systems and Informatics, 2006, 1, 51-64.	0.9	6
38	New knowledge extraction technique using probability for case-based reasoning: application to medical diagnosis. Expert Systems, 2006, 23, 2-20.	4.5	47

#	ARTICLE	IF	CITATIONS
39	A process-mining framework for the detection of healthcare fraud and abuse. Expert Systems With Applications, 2006, 31, 56-68.	7.6	203
40	Knowledge discovery in traditional Chinese medicine: State of the art and perspectives. Artificial Intelligence in Medicine, 2006, 38, 219-236.	6.5	188
41	Prediction of HIV Status from Demographic Data Using Neural Networks. , 2006, , .		10
43	A Comparison of Data Mining Methods and Logistic Regression to Determine Factors Associated with Death Following Injury. , 2006, , 417-423.		0
44	Combination Data Mining Methods with New Medical Data to Predicting Outcome of Coronary Heart Disease. , 2007, , .		49
45	Neural Networks and Artificial Intelligence in Thoracic Surgery. Thoracic Surgery Clinics, 2007, 17, 359-367.	1.0	13
46	The Application of Machine Learning Techniques as an Adjunct to Clinical Decision Making in Alcohol Dependence Treatment. Substance Use and Misuse, 2007, 42, 2193-2206.	1.4	32
47	MEPAR-miner: Multi-expression programming for classification rule mining. European Journal of Operational Research, 2007, 183, 767-784.	5.7	37
48	Predicting Metastasis in Breast Cancer: Comparing a Decision Tree with Domain Experts. Journal of Medical Systems, 2007, 31, 263-273.	3.6	27
49	Quantitative structureâ€“mobility relationship study of a diverse set of organic acids using classification and regression trees and adaptive neuroâ€“fuzzy inference systems. Electrophoresis, 2008, 29, 363-374.	2.4	19
50	Intelligent physician segmentation and management based on KDD approach. Expert Systems With Applications, 2008, 34, 1963-1973.	7.6	18
51	Eliciting transparent fuzzy model using differential evolution. Applied Soft Computing Journal, 2008, 8, 466-476.	7.2	50
52	Visual MRI: Merging information visualization and non-parametric clustering techniques for MRI dataset analysis. Artificial Intelligence in Medicine, 2008, 44, 183-199.	6.5	9
53	SVM ranking with backward search for feature selection in type II diabetes databases. Conference Proceedings IEEE International Conference on Systems, Man, and Cybernetics, 2008, , .	0.0	28
54	Rapid Evaluation of Human Biomonitoring Data Using Pattern Recognition Systems. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2008, 71, 816-826.	2.3	5
55	Q-Learning Based Therapy Planning Decision Support System. , 2008, , .		0
56	A Term-Mapping Framework for Data Mining in Heterogeneous Medical Data Sources. , 2008, , .		3
57	Interactive Knowledge Discovery for Temporal Lobe Epilepsy. , 0, , .		2

#	ARTICLE	IF	CITATIONS
58	Generating Treatment Plan in Medicine: A Data Mining Approach. American Journal of Applied Sciences, 2009, 6, 345-351.	0.2	16
59	Clinical Data Mining: a Review. Yearbook of Medical Informatics, 2009, 18, 121-133.	1.0	50
60	Chemometrical Modeling of Electrophoretic Mobilities in Capillary Electrophoresis. , 0, , 323-343.		0
61	Neuroinformatics for Neuropsychology. , 2009, , .		13
62	Machine learning techniques to examine large patient databases. Bailliere's Best Practice and Research in Clinical Anaesthesiology, 2009, 23, 127-143.	4.0	78
63	Mining trauma injury data with imputed values. Statistical Analysis and Data Mining, 2009, 2, 246-254.	2.8	2
64	The development of dentist practice profiles and management. Journal of Evaluation in Clinical Practice, 2009, 15, 4-13.	1.8	2
65	DÃ©tection et prÃ©vention des effets indÃ©sirables liÃ©s aux mÃ©dicaments par data-mining. Irbm, 2009, 30, 192-196.	5.6	0
66	Loss and gain functions for CBR retrieval. Information Sciences, 2009, 179, 1738-1750.	6.9	41
67	Discovering interobserver variability in the cytodiagnosis of breast cancer using decision trees and Bayesian networks. Applied Soft Computing Journal, 2009, 9, 1331-1342.	7.2	20
69	A Data-Driven Approach to Manage the Length of Stay for Appendectomy Patients. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2009, 39, 1339-1347.	2.9	13
71	Data mining trauma injury data using C5.0 and logistic regression to determine factors associated with death. International Journal of Healthcare Technology and Management, 2009, 10, 16.	0.1	4
72	Clinical data mining and research in the allergy office. Current Opinion in Allergy and Clinical Immunology, 2010, 10, 171-177.	2.3	5
73	KISTCM: knowledge discovery system for traditional Chinese medicine. Applied Intelligence, 2010, 32, 346-363.	5.3	13
74	Prediction of Clinical Conditions after Coronary Bypass Surgery using Dynamic Data Analysis. Journal of Medical Systems, 2010, 34, 229-239.	3.6	11
75	Comparison of the predictive qualities of three prognostic models of colorectal cancer. Frontiers in Bioscience - Elite, 2010, E2, 849-856.	1.8	6
76	Processing body sensor data streams for continuous physiological monitoring. , 2010, , .		5
77	Data Mining to Generate Adverse Drug Events Detection Rules. IEEE Transactions on Information Technology in Biomedicine, 2011, 15, 823-830.	3.2	56

#	ARTICLE	IF	CITATIONS
78	Cost-sensitive case-based reasoning using a genetic algorithm: Application to medical diagnosis. Artificial Intelligence in Medicine, 2011, 51, 133-145.	6.5	33
79	Consensus on the Census?. Research Ethics, 2011, 7, 33-36.	1.7	0
80	Predictive modeling of cardiovascular complications in incident hemodialysis patients. , 2012, 2012, 3943-6.		2
81	Novel Mechanism to Improve Hadith Classifier Performance. , 2012, , .		13
82	The use of dataâ€œmining to identify indicators of healthâ€œrelated quality of life in patients with irritable bowel syndrome. Journal of Clinical Nursing, 2012, 21, 2761-2771.	3.0	14
83	PREDICTION OF RETENTION OF PESTICIDES IN REVERSED-PHASE HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY USING CLASSIFICATION AND REGRESSION TREE ANALYSIS AND ADAPTIVE NEURO-FUZZY INFERENCE SYSTEMS. Journal of Liquid Chromatography and Related Technologies, 2012, 35, 854-865.	1.0	6
84	Hybrid decision making in the monitoring of hypertensive patients. , 2012, , .		0
85	Using artificial intelligence to predict the risk for posterior capsule opacification after phacoemulsification. Journal of Cataract and Refractive Surgery, 2012, 38, 403-408.	1.5	20
86	Mining Medical Data to Develop Clinical Decision Making Tools in Hemodialysis. , 2012, , .		2
87	An Approach for ECG Characterization and Classification Using the Combination of Wavelet Transform and Decision Tree Methods. International Journal of Systems Biology and Biomedical Technologies, 2012, 1, 72-81.	0.2	0
88	Comparative Study of ECG Classification Performance Using Decision Tree Algorithms. International Journal of E-Health and Medical Communications, 2012, 3, 102-120.	1.6	12
89	Mining electronic health records: towards better research applications and clinical care. Nature Reviews Genetics, 2012, 13, 395-405.	16.3	1,226
90	A Decision Support Tool for Health Service Re-design. Journal of Medical Systems, 2012, 36, 621-630.	3.6	6
91	Predicting the need for CT imaging in children with minor head injury using an ensemble of Naive Bayes classifiers. Artificial Intelligence in Medicine, 2012, 54, 163-170.	6.5	25
92	A knowledge-based clinical toxicology consultant for diagnosing single exposures. Artificial Intelligence in Medicine, 2012, 55, 87-95.	6.5	13
93	Predictive data mining on monitoring data from the intensive care unit. Journal of Clinical Monitoring and Computing, 2013, 27, 449-453.	1.6	8
94	Prediction of Infinite Dilution Activity Coefficients of Halogenated Hydrocarbons in Water Using Classification and Regression Tree Analysis and Adaptive Neuro-Fuzzy Inference Systems. Journal of Solution Chemistry, 2013, 42, 516-525.	1.2	6
95	Hybrid Metaheuristics. Studies in Computational Intelligence, 2013, , .	0.9	24

#	ARTICLE	IF	CITATIONS
96	Improving the interpretability of classification rules discovered by an ant colony algorithm. , 2013, , .		23
97	Alternatives to relational database: Comparison of NoSQL and XML approaches for clinical data storage. Computer Methods and Programs in Biomedicine, 2013, 110, 99-109.	4.7	83
98	Comparison of three data mining models for predicting diabetes or prediabetes by risk factors. Kaohsiung Journal of Medical Sciences, 2013, 29, 93-99.	1.9	190
99	Decision tree classifiers for automated medical diagnosis. Neural Computing and Applications, 2013, 23, 2387-2403.	5.6	148
100	A data mining approach for diagnosis of coronary artery disease. Computer Methods and Programs in Biomedicine, 2013, 111, 52-61.	4.7	212
101	Adaptive process control based on a self-learning mechanism in autonomous manufacturing systems. International Journal of Advanced Manufacturing Technology, 2013, 66, 1725-1743.	3.0	14
102	Hybrid system for lymphatic diseases diagnosis. , 2013, , .		23
103	Ant colony based approach to predict stock market movement from mood collected on Twitter. , 2013, , .		14
104	Classification of Sporting Activities Using Smartphone Accelerometers. Sensors, 2013, 13, 5317-5337.	3.8	131
105	Clinical decision support system for diagnosis and management of Chronic Renal Failure. , 2013, , .		30
106	Hybrid System based on Rough Sets and Genetic Algorithms for Medical Data Classifications. International Journal of Fuzzy System Applications, 2013, 3, 31-46.	0.7	30
107	A Task-based Support Architecture for Developing Point-of-care Clinical Decision Support Systems for the Emergency Department. Methods of Information in Medicine, 2013, 52, 18-32.	1.2	27
108	Evaluation of the Diagnostic Power of Thermography in Breast Cancer Using Bayesian Network Classifiers. Computational and Mathematical Methods in Medicine, 2013, 2013, 1-10.	1.3	45
109	Diagnosis and Classification of Chronic Renal Failure Utilising Intelligent Data Mining Classifiers. International Journal of Information Technology and Web Engineering, 2014, 9, 1-12.	1.6	23
110	Simulation and Big Data: A Way to Discover Unusual Knowledge in Emergency Departments: Work-in-Progress Paper. , 2014, , .		6
111	Limestone: High-throughput candidate phenotype generation via tensor factorization. Journal of Biomedical Informatics, 2014, 52, 199-211.	4.3	121
112	Modeling risk prediction of diabetes &#x2014; A preventive measure. , 2014, , .		3
113	Deep learning based classification of focal liver lesions with contrast-enhanced ultrasound. Optik, 2014, 125, 4057-4063.	2.9	100

#	ARTICLE	IF	CITATIONS
114	HColonies: a new hybrid metaheuristic for medical data classification. Applied Intelligence, 2014, 41, 282-298.	5.3	16
115	Knowledge discovery in medicine: Current issue and future trend. Expert Systems With Applications, 2014, 41, 4434-4463.	7.6	196
116	A hybrid intelligent system for diagnosing microalbuminuria in type 2 diabetes patients without having to measure urinary albumin. Computers in Biology and Medicine, 2014, 45, 34-42.	7.0	35
117	An Empirical Study on the Performance of Rule-Based Classification by Feature Selection. , 2014, , .		0
119	Applying decision tree for identification of a low risk population for type 2 diabetes. Tehran Lipid and Glucose Study. Diabetes Research and Clinical Practice, 2014, 105, 391-398.	2.8	54
120	Comprehensible classification models. SICKDD Explorations: Newsletter of the Special Interest Group (SIG) on Knowledge Discovery & Data Mining, 2014, 15, 1-10.	4.0	394
121	Enhancement of Mahalanobisâ€™Taguchi System via Rough Sets based Feature Selection. Expert Systems With Applications, 2014, 41, 8003-8015.	7.6	32
122	A new hybrid metaheuristic for medical data classification. International Journal of Metaheuristics, 2014, 3, 59.	0.1	16
123	The Information Filtering of Gene Network for Chronic Diseases: Social Network Perspective. International Journal of Distributed Sensor Networks, 2015, 11, 736569.	2.2	4
124	A methodology for exploring biomarker â€™ phenotype associations: application to flow cytometry data and systemic sclerosis clinical manifestations. BMC Bioinformatics, 2015, 16, 293.	2.6	8
125	Classification and regression of Ultra Wide Band signals. , 2015, , .		2
126	5. Medizinische Datenbanken. , 0, , .		0
127	An integrated approach of feature selection and parameter optimisation of kernel to enhance the performance of support vector machine. International Journal of Communication Networks and Distributed Systems, 2015, 15, 265.	0.4	1
128	Probabilistic combination of classification rules and its application to medical diagnosis. Machine Learning, 2015, 101, 105-135.	5.4	20
129	Comparison of three classifiers for breast cancer outcome prediction. , 2015, , .		0
130	Patient classification and outcome prediction in IgA nephropathy. Computers in Biology and Medicine, 2015, 66, 278-286.	7.0	19
131	Detection of Periodic Leg Movements by Machine Learning Methods Using Polysomnographic Parameters Other Than Leg Electromyography. Computational and Mathematical Methods in Medicine, 2016, 2016, 1-7.	1.3	5
132	Data Mining and NIR Spectroscopy in Viticulture: Applications for Plant Phenotyping under Field Conditions. Sensors, 2016, 16, 236.	3.8	39



#	ARTICLE	IF	CITATIONS
133	Analysis of Neurooncological Data to Predict Success of Operation Through Classification. , 2016, , .		0
134	Prediction of solubility of some statin drugs in supercritical carbon dioxide using classification and regression tree analysis and adaptive neuro-fuzzy inference systems. Russian Chemical Bulletin, 2016, 65, 1131-1138.	1.5	1
135	Experimental analysis of traditional classification algorithms on bio medical dtatasets. , 2016, , .		2
136	Feature selection using Forest Optimization Algorithm. Pattern Recognition, 2016, 60, 121-129.	8.1	106
137	PSGMiner: A modular software for polysomnographic analysis. Computers in Biology and Medicine, 2016, 73, 1-9.	7.0	3
138	Predictive Analytics for Breast Cancer Survivability. , 2016, , .		8
139	A Bayesian Perspective on Early Stage Event Prediction in Longitudinal Data. IEEE Transactions on Knowledge and Data Engineering, 2016, 28, 3126-3139.	5.7	26
140	Towards an intelligent decision-making support in health information systems: Lightweight hybrid data mining class library for object-oriented applications. , 2016, , .		0
141	An intelligent medicine recommender system framework. , 2016, , .		29
142	Breast tumor classification using a new OWA operator. Expert Systems With Applications, 2016, 61, 302-313.	7.6	18
143	Classification of auditory brainstem responses through symbolic pattern discovery. Artificial Intelligence in Medicine, 2016, 70, 12-30.	6.5	16
144	Combined data mining techniques based patient data outlier detection for healthcare safety. International Journal of Intelligent Computing and Cybernetics, 2016, 9, 42-68.	2.7	28
145	A probabilistic data-driven framework for scoring the preoperative recipient-donor heart transplant survival. Decision Support Systems, 2016, 86, 1-12.	5.9	60
146	Pharmacy robotic dispensing and planogram analysis using association rule mining with prescription data. Expert Systems With Applications, 2016, 57, 296-310.	7.6	32
147	IntelliHealth: A medical decision support application using a novel weighted multi-layer classifier ensemble framework. Journal of Biomedical Informatics, 2016, 59, 185-200.	4.3	115
148	Improving the Interpretability of Classification Rules Discovered by an Ant Colony Algorithm: Extended Results. Evolutionary Computation, 2016, 24, 385-409.	3.0	16
150	Towards Development of National Health Data Warehouse for Knowledge Discovery. Advances in Intelligent Systems and Computing, 2016, , 413-421.	0.6	8
151	High-dimensional feature selection via feature grouping: A Variable Neighborhood Search approach. Information Sciences, 2016, 326, 102-118.	6.9	99

#	ARTICLE	IF	CITATIONS
152	Blood type classification using computer vision and machine learning. Neural Computing and Applications, 2017, 28, 2029-2040.	5.6	12
153	Computer aided decision making for heart disease detection using hybrid neural network-Genetic algorithm. Computer Methods and Programs in Biomedicine, 2017, 141, 19-26.	4.7	343
154	A Critical Review for Developing Accurate and Dynamic Predictive Models Using Machine Learning Methods in Medicine and Health Care. Journal of Medical Systems, 2017, 41, 69.	3.6	132
155	Data mining techniques and applications – A decade review. , 2017, , .		39
156	Bridge Type Classification: Supervised Learning on a Modified NBI Data Set. Journal of Computing in Civil Engineering, 2017, 31, .	4.7	15
157	The application of a decision tree to establish the parameters associated with hypertension. Computer Methods and Programs in Biomedicine, 2017, 139, 83-91.	4.7	69
158	Analysing temporal performance profiles of UAV operators using time series clustering. Expert Systems With Applications, 2017, 70, 103-118.	7.6	27
159	Cancer survivability prediction using random forest and rule induction algorithms. , 2017, , .		8
160	Comparison of machine-learning algorithms to build a predictive model for detecting undiagnosed diabetes - ELSA-Brasil: accuracy study. Sao Paulo Medical Journal, 2017, 135, 234-246.	0.9	56
161	WebMAC: A web based clinical expert system. Information Systems Frontiers, 2018, 20, 1135-1151.	6.4	7
162	Cloud-centric IoT based student healthcare monitoring framework. Journal of Ambient Intelligence and Humanized Computing, 2018, 9, 1293-1309.	4.9	92
163	A multi-level classification framework for multi-site medical data: Application to the ADHD-200 collection. Expert Systems With Applications, 2018, 91, 36-45.	7.6	35
164	A predictive model for acute allograft rejection of liver transplantation. Expert Systems With Applications, 2018, 94, 228-236.	7.6	6
165	Evaluating of associated risk factors of metabolic syndrome by using decision tree. Comparative Clinical Pathology, 2018, 27, 215-223.	0.7	13
166	A rule-based semantic approach for data integration, standardization and dimensionality reduction utilizing the UMLS: Application to predicting bariatric surgery outcomes. Computers in Biology and Medicine, 2019, 106, 84-90.	7.0	13
167	Artificial Intelligence in Smart Cities. , 2019, , .		10
168	Explainability in human-agent systems. Autonomous Agents and Multi-Agent Systems, 2019, 33, 673-705.	2.1	122
169	Towards interpretable machine learning models for diagnosis aid: A case study on attention deficit/hyperactivity disorder. PLoS ONE, 2019, 14, e0215720.	2.5	25

#	ARTICLE	IF	CITATIONS
170	Prediction of patient's response to OnabotulinumtoxinA treatment for migraine. Heliyon, 2019, 5, e01043.	3.2	15
171	Accurate and rapid screening model for potential diabetes mellitus. BMC Medical Informatics and Decision Making, 2019, 19, 41.	3.0	21
172	Assessing Replicability of Machine Learning Results: An Introduction to Methods on Predictive Accuracy in Social Sciences. Social Science Computer Review, 2019, , 089443931988844.	4.2	3
173	Specifics of medical data mining for diagnosis aid: A survey. Expert Systems With Applications, 2019, 118, 300-314.	7.6	43
174	Parallel cycle-based branch-and-bound method for Bayesian network learning. Pattern Analysis and Applications, 2020, 23, 897-911.	4.6	1
175	Supervised machine learning techniques and genetic optimization for occupational diseases risk prediction. Soft Computing, 2020, 24, 4393-4406.	3.6	26
176	Critical Evaluation of Predictive Analytics Techniques for the Design of Knowledge Base. Learning and Analytics in Intelligent Systems, 2020, , 385-392.	0.6	0
177	Strong approximate Markov blanket and its application on filter-based feature selection. Applied Soft Computing Journal, 2020, 87, 105957.	7.2	20
178	Predicting hypertension using machine learning: Findings from Qatar Biobank Study. PLoS ONE, 2020, 15, e0240370.	2.5	45
179	Prediction of Important Factors for Bleeding in Liver Cirrhosis Disease Using Ensemble Data Mining Approach. Mathematics, 2020, 8, 1887.	2.2	8
180	Automatic Learning Framework for Pharmaceutical Record Matching. IEEE Access, 2020, 8, 171754-171770.	4.2	3
181	Lameness prediction in broiler chicken using a machine learning technique. Information Processing in Agriculture, 2021, 8, 409-418.	4.1	10
182	Chronic Kidney Disease Prediction Using Data Mining. , 2020, , .		12
183	Feature Selection in Pre-Diagnosis Heart Coronary Artery Disease Detection: A heuristic approach for feature selection based on Information Gain Ratio and Gini Index. , 2020, , .		12
184	Design of an integrated model for diagnosis and classification of pediatric acute leukemia using machine learning. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2020, 234, 1051-1069.	1.8	22
185	Using health data repositories for developing clinical system software: a multi-objective fuzzy genetic approach. IET Software, 2020, 14, 254-264.	2.1	3
186	Patient-Level Effectiveness Prediction Modeling for Glioblastoma Using Classification Trees. Frontiers in Pharmacology, 2019, 10, 1665.	3.5	3
187	Hybrid particle swarm optimization for rule discovery in the diagnosis of coronary artery disease. Expert Systems, 2021, 38, .	4.5	50

#	ARTICLE	IF	CITATIONS
188	Equine simplified acute physiology score: Personalised medicine for the equine emergency patient. Veterinary Record, 2021, 189, e136.	0.3	1
189	A Noninvasive Prediction Model for Hepatitis B Virus Disease in Patients with HIV: Based on the Population of Jiangsu, China. BioMed Research International, 2021, 2021, 1-12.	1.9	4
190	Prediction of military combat clothing size using decision trees and 3D body scan data. Applied Ergonomics, 2021, 95, 103435.	3.1	9
191	k-relevance vectors: Considering relevancy beside nearness. Applied Soft Computing Journal, 2021, 112, 107762.	7.2	0
193	Obstacles and Misunderstandings Facing Medical Data Mining. Lecture Notes in Computer Science, 2006, , 856-863.	1.3	4
194	Polynomial-Fuzzy Decision Tree Structures for Classifying Medical Data. , 2004, , 155-167.		1
195	Artificial Neural Network Excellence to Facilitate Lean Thinking Adoption in Healthcare Contexts. , 2014, , 13-27.		5
196	Mining Compact Predictive Pattern Sets Using Classification Model. Lecture Notes in Computer Science, 2019, 11526, 386-396.	1.3	6
197	Intelligent Systems in Managerial Decision Making. Intelligent Systems Reference Library, 2015, , 377-403.	1.2	1
199	Multi-objective Genetic Programming Optimization of Decision Trees for Classifying Medical Data. Lecture Notes in Computer Science, 2003, , 293-299.	1.3	13
200	Using Secondary Knowledge to Support Decision Tree Classification of Retrospective Clinical Data. , 2007, , 238-251.		1
201	Guidelines to Select Machine Learning Scheme for Classification of Biomedical Datasets. Lecture Notes in Computer Science, 2009, , 128-139.	1.3	49
202	Enhancing the Performance of LibSVM Classifier by Kernel F-Score Feature Selection. Communications in Computer and Information Science, 2009, , 533-543.	0.5	11
203	Hybrid Metaheuristics for Medical Data Classification. Studies in Computational Intelligence, 2013, , 187-217.	0.9	12
204	Assessment of Bayesian Network Classifiers as Tools for Discriminating Breast Cancer Pre-diagnosis Based on Three Diagnostic Methods. Lecture Notes in Computer Science, 2013, , 419-431.	1.3	7
205	A Policy-Based Cleansing and Integration Framework for Labour and Healthcare Data. Lecture Notes in Computer Science, 2014, , 141-168.	1.3	6
206	Replicability of Machine Learning Models in the Social Sciences. Zeitschrift Fur Psychologie / Journal of Psychology, 2018, 226, 259-273.	1.0	21
207	Improving data collection and information retrieval for monitoring sexual health. International Journal of STD and AIDS, 2001, 12, 8-13.	1.1	1

#	ARTICLE	IF	CITATIONS
208	Bayesian Networks for Clinical Decision Support in Lung Cancer Care. PLoS ONE, 2013, 8, e82349.	2.5	112
209	Clinical Data Warehouse Issues and Challenges. International Journal of U- and E- Service, Science and Technology, 2014, 7, 251-262.	0.1	7
210	A feature-based selection technique for reduction of large scale data. International Journal of Data Analysis Techniques and Strategies, 2017, 9, 207.	0.2	3
211	EMiner: A Tool for Selecting Classification Algorithms and Optimal Parameters. Polibits, 0, 52, 17-24.	0.0	1
213	Artificial Neural Learning Based on Big Data Process for eHealth Applications. Advances in Web Technologies and Engineering Book Series, 2015, , 291-306.	0.4	2
214	Logic Programming and Machine Ethics. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 325, 6-17.	0.8	2
215	Basic Concepts and Principles of Data Mining in Clinical Practice. Journal of Korean Society of Medical Informatics, 2009, 15, 175.	0.3	12
216	Paradigms for spatial and spatio-temporal data mining. , 0, , 33-50.		22
217	Classification and Regression Tree Analysis for Molecular Descriptor Selection and Binding Affinities Prediction of Imidazobenzodiazepines in Quantitative Structure-Activity Relationship Studies. Bulletin of the Korean Chemical Society, 2009, 30, 2717-2722.	1.9	6
218	Prediction of hospital no-show appointments through artificial intelligence algorithms. Annals of Saudi Medicine, 2019, 39, 373-381.	1.1	38
219	The Usage of Association Rule Mining to Identify Influencing Factors on Deafness After Birth. Acta Informatica Medica, 2015, 23, 356.	1.1	1
221	Combining Supervised and Unsupervised Methods to Support Early Diagnosis of Hepatocellular Carcinoma. Lecture Notes in Computer Science, 2003, , 239-243.	1.3	1
222	Combining Temporal Abstraction and Data Mining Methods in Medical Data Analysis. , 2005, , 940-964.		0
224	Integration of Learning Methods, Medical Literature and Expert Inspection in Medical Data Mining. IEICE Transactions on Information and Systems, 2007, E90-D, 1574-1581.	0.7	1
225	Neural Networks Applied to Medical Data for Prediction of Patient Outcome. Lecture Notes in Electrical Engineering, 2008, , 309-325.	0.4	3
226	Cost-Sensitive Learning in Medicine. , 2009, , 57-75.		1
227	Learning Cost-Sensitive Decision Trees to Support Medical Diagnosis. , 2010, , 287-307.		0
228	Mining Medical Data to Develop Clinical Decision Making Tools in Hemodialysis. International Journal of Knowledge Discovery in Bioinformatics, 2011, 2, 1-17.	0.8	0

#	ARTICLE	IF	CITATIONS
229	Overview of Knowledge Discovery in Traditional Chinese Medicine. , 2012, , 1-26.		2
230	Cost-Sensitive Learning in Medicine. , 2012, , 1625-1641.		0
231	Using Data Mining Techniques to Build a Classification Model for Predicting Employees Performance. International Journal of Advanced Computer Science and Applications, 2012, 3, .	0.7	27
232	Descubrimiento de conocimiento en los negocios. Panorama, 2013, 2, .	0.2	1
233	Opportunities and Challenges of Big Data in Healthcare. Advances in Healthcare Information Systems and Administration Book Series, 2017, , 47-58.	0.2	0
234	Deep Learning in Oncology- A Case Study on Brain Tumor. International Journal of Cancer Research & Therapy, 2018, 3, .	0.1	0
235	A Fast and Efficient Grid-Based K-means++ Clustering Algorithm for Large-Scale Datasets. Advances in Intelligent Systems and Computing, 2019, , 508-515.	0.6	2
236	MEVSÄ°MLERE GÄ—RE Ä°LAÄ± SATIÄ± VERÄ°LERÄ°NÄ°N BÄ°RLÄ°KTELÄ°K ANALÄ°ZÄ° Ä°LE Ä°NCELENMESÄ°. Uluslararası YÄ°netim Bilişim Sistemleri Ve Bilgisayar Bilimleri Dergisi, 0, , 23-30.	0.3	1
237	Feature Selection Method using Genetic Algorithm for Medical Dataset. International Journal on Advanced Science, Engineering and Information Technology, 2019, 9, 1907-1912.	0.4	1
238	Deep Learning Techniques for Prediction, Detection, and Segmentation of Brain Tumors. Advances in Bioinformatics and Biomedical Engineering Book Series, 2020, , 118-154.	0.4	0
239	Opportunities and Challenges of Big Data in Healthcare. , 2020, , 1989-2001.		0
240	Constructing Interpretable Decision Trees Using Parallel Coordinates. Lecture Notes in Computer Science, 2020, , 152-164.	1.3	4
241	Beyond the Horizon: A Meticulous Analysis of Clinical Decision-Making Practices. International Journal of Advanced Computer Science and Applications, 2020, 11, .	0.7	0
242	Environmental Impact Classification of Perishable Cargo Transport Using Data Mining. IFIP Advances in Information and Communication Technology, 2020, , 624-630.	0.7	0
243	Artificial Neural Learning Based on Big Data Process for eHealth Applications. , 0, , 1524-1540.		1
244	Compilation of References. , 0, , 0-0.		0
245	Organizational Implementation of Healthcare Information Systems. , 0, , 419-450.		0
246	A clinical decision tool for predicting patient care characteristics: patients returning within 72 hours in the emergency department. AMIA ... Annual Symposium proceedings, 2012, 2012, 495-504.	0.2	21

#	ARTICLE	IF	CITATIONS
248	Manipulating measurement scales in medical statistical analysis and data mining: A review of methodologies. Journal of Research in Medical Sciences, 2014, 19, 47-56.	0.9	16
249	Prognosis and Early Diagnosis of Ductal and Lobular Type in Breast Cancer Patient. Iranian Journal of Public Health, 2017, 46, 1563-1571.	0.5	5
250	Heuristic Classifier for Observe Accuracy of Cancer Polyp Using Video Capsule Endoscopy. Asian Pacific Journal of Cancer Prevention, 2017, 18, 1681-1688.	1.2	1
251	Human-in-the-Loop Interpretability Prior. Advances in Neural Information Processing Systems, 2018, 31, .	2.8	3
252	COVIDetect-DESVM: Explainable framework using Differential Evolution Algorithm with SVM classifier for the diagnosis of COVID-19. , 2021, , .		1
253	An efficient classification rule generation for coronary artery disease diagnosis using a novel discrete equilibrium optimizer algorithm. Journal of Intelligent and Fuzzy Systems, 2022, 43, 2315-2331.	1.4	3
254	A Machine Learning Based Framework to Identify and Classify Non-alcoholic Fatty Liver Disease in a Large-Scale Population. Frontiers in Public Health, 2022, 10, 846118.	2.7	7
259	Arterial Stiffness Determinants for Primary Cardiovascular Prevention among Healthy Participants. Journal of Clinical Medicine, 2022, 11, 2512.	2.4	12
260	A survey on predicting breast cancer survivability and its challenges. , 2019, 4, 37-42.		1
261	Artificial Intelligence and Dental Practice Management. , 2022, 1, 11-14.		4
262	Artificial Intelligence in Dentistry: A Ray of Hope. CODS Journal of Dentistry, 2022, 13, 58-60.	0.2	1
264	Association between serum uric acid and arterial stiffness in a largeâ€œaged 40â€œ70 years old population. Journal of Clinical Hypertension, 2022, 24, 885-897.	2.0	12
265	Artificial intelligence - A boon for dentistry. International Dental Journal of Student Research, 2022, 10, 37-42.	0.2	3
266	ARTIFICIAL INTELLIGENCE â€œ CREATING THE FUTURE : A REVIEW. , 2022, , 44-45.		0
267	Human-in-the-Loop Optimization for Artificial Intelligence Algorithms. Lecture Notes in Computer Science, 2022, , 92-102.	1.3	1
268	Constructing Explainable Classifiers from the Startâ€œEnabling Human-in-the Loop Machine Learning. Information (Switzerland), 2022, 13, 464.	2.9	0
269	Evaluating the risk of hypertension in residents in primary care in Shanghai, China with machine learning algorithms. Frontiers in Public Health, 0, 10, .	2.7	2
270	Information fusion via symbolic regression: A tutorial in the context of human health. Information Fusion, 2023, 92, 326-335.	19.1	0

#	ARTICLE	IF	CITATIONS
271	AI in Oral Health and Oral Imaging. , 2023, , 161-182.		0
272	Application of Artificial Intelligence in Ambient Assisted Living to Support Elderly People in Smart Homes. EAI/Springer Innovations in Communication and Computing, 2023, , 145-163.	1.1	0
273	Analyzing the Brazilian project of energy expansion. European Journal of Sustainable Development Research, 2023, 7, em0227.	0.9	0
275	Arterial stiffness and biological parameters: A decision tree machine learning application in hypertensive participants. PLoS ONE, 2023, 18, e0288298.	2.5	0
276	Machine learning decision tree models for multiclass classification of common malignant brain tumors using perfusion and spectroscopy MRI data. Frontiers in Oncology, 0, 13, .	2.8	2
277	Exploring Evaluation Methods for Interpretable Machine Learning: A Survey. Information (Switzerland), 2023, 14, 469.	2.9	1
278	Decentralized Reinforced Anonymous FLchain: a Secure Federated Learning Architecture for the Medical Industry. , 2023, , .		0
279	The Secondary Isolated Data Island: Isolated Data Island Caused by Blockchain in Federated Learning. , 2023, , .		0
280	A hybridized red deer and rough set clinical information retrieval system for hepatitis B diagnosis. Scientific Reports, 2024, 14, .	3.3	0