Automated detection of COVID-19 cases using deep neu

Citation Report

#	ARTICLE	IF	CITATIONS
1	A Survey on how computer vision can response to urgent need to contribute in COVID-19 pandemics. , 2020, , .		11
2	A Deep Learning Approach to Detect COVID-19 Patients from Chest X-ray Images. AI, 2020, 1, 418-435.	3.8	35
3	Deep MLP-CNN Model Using Mixed-Data to Distinguish between COVID-19 and Non-COVID-19 Patients. Symmetry, 2020, 12, 1526.	2.2	77
4	Insight about Detection, Prediction and Weather Impact of Coronavirus (Covid-19) using Neural Network. International Journal of Artificial Intelligence & Applications, 2020, 11, 67-81.	0.5	3
5	A Deep Learning Based Assistive System to Classify COVID-19 Face Mask for Human Safety with YOLOv3. , 2020, , .		74
6	Artificial Intelligence-Based Classification of Chest X-Ray Images into COVID-19 and Other Infectious Diseases. International Journal of Biomedical Imaging, 2020, 2020, 1-10.	3.9	87
7	Automated medical diagnosis of COVID-19 through EfficientNet convolutional neural network. Applied Soft Computing Journal, 2020, 96, 106691.	7.2	223
8	CVDNet: A novel deep learning architecture for detection of coronavirus (Covid-19) from chest x-ray images. Chaos, Solitons and Fractals, 2020, 140, 110245.	5.1	148
9	A deep learning approach to detect Covid-19 coronavirus with X-Ray images. Biocybernetics and Biomedical Engineering, 2020, 40, 1391-1405.	5.9	211
10	The investigation of multiresolution approaches for chest X-ray image based COVID-19 detection. Health Information Science and Systems, 2020, 8, 29.	5.2	34
11	Emerging Technologies and Sensors That Can Be Used During the COVID-19 Pandemic. , 2020, , .		12
12	A Review of the State of the Art in Non-Contact Sensing for COVID-19. Sensors, 2020, 20, 5665.	3.8	64
13	Issues associated with deploying CNN transfer learning to detect COVID-19 from chest X-rays. Physical and Engineering Sciences in Medicine, 2020, 43, 1289-1303.	2.4	36
14	Detection Methods of COVID-19. SLAS Technology, 2020, 25, 566-572.	1.9	22
15	A survey on artificial intelligence approaches in supporting frontline workers and decision makers for the COVID-19 pandemic. Chaos, Solitons and Fractals, 2020, 141, 110337.	5.1	77
16	Multi-task deep learning based CT imaging analysis for COVID-19 pneumonia: Classification and segmentation. Computers in Biology and Medicine, 2020, 126, 104037.	7.0	369
17	Automatic detection of COVID-19 infection using chest X-ray images through transfer learning. IEEE/CAA Journal of Automatica Sinica, 2021, 8, 239-248.	13.1	187
18	Accurate deep neural network model to detect cardiac arrhythmia on more than 10,000 individual subject ECG records. Computer Methods and Programs in Biomedicine, 2020, 197, 105740.	4.7	72

#	Article	IF	Citations
19	Can AI Help in Screening Viral and COVID-19 Pneumonia?. IEEE Access, 2020, 8, 132665-132676.	4.2	1,080
20	Convolutional capsnet: A novel artificial neural network approach to detect COVID-19 disease from X-ray images using capsule networks. Chaos, Solitons and Fractals, 2020, 140, 110122.	5.1	236
21	Artificial Intelligence (AI) and Big Data for Coronavirus (COVID-19) Pandemic: A Survey on the State-of-the-Arts. IEEE Access, 2020, 8, 130820-130839.	4.2	212
22	COVID-19 detection in radiological text reports integrating entity recognition. Computers in Biology and Medicine, 2020, 127, 104066.	7.0	30
23	CCBlock: an effective use of deep learning for automatic diagnosis of COVID-19 using X-ray images. Research on Biomedical Engineering, 2022, 38, 49-58.	2.2	10
24	COVID-CheXNet: hybrid deep learning framework for identifying COVID-19 virus in chest X-rays images. Soft Computing, 2023, 27, 2657-2672.	3.6	102
25	The importance of standardisation – COVID-19 CT & Radiograph Image Data Stock for deep learning purpose. Computers in Biology and Medicine, 2020, 127, 104092.	7.0	9
26	An Analysis Review of Detection Coronavirus Disease 2019 (COVID-19) Based on Biosensor Application. Sensors, 2020, 20, 6764.	3.8	55
27	Rapid COVID-19 diagnosis using ensemble deep transfer learning models from chest radiographic images. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 5541-5553.	4.9	84
28	A deep learning and grad-CAM based color visualization approach for fast detection of COVID-19 cases using chest X-ray and CT-Scan images. Chaos, Solitons and Fractals, 2020, 140, 110190.	5.1	308
29	An empirical overview of nonlinearity and overfitting in machine learning using COVID-19 data. Chaos, Solitons and Fractals, 2020, 139, 110055.	5.1	69
30	Deep learning applications in pulmonary medical imaging: recent updates and insights on COVID-19. Machine Vision and Applications, 2020, 31, 53.	2.7	48
31	A case-based reasoning framework for early detection and diagnosis of novel coronavirus. Informatics in Medicine Unlocked, 2020, 20, 100395.	3.4	36
32	A Novel Medical Diagnosis model for COVID-19 infection detection based on Deep Features and Bayesian Optimization. Applied Soft Computing Journal, 2020, 97, 106580.	7.2	232
33	"Tomorrow Never Dies" Recent Advances in Diagnosis, Treatment, and Prevention Modalities against Coronavirus (COVID-19) amid Controversies. Diseases (Basel, Switzerland), 2020, 8, 30.	2.5	19
34	Artificial intelligence in ophthalmology during COVID-19 and in the post COVID-19 era. Current Opinion in Ophthalmology, 2020, 31, 447-453.	2.9	22
35	Artificial Intelligence for clinical decision support in Critical Care, required and accelerated by COVID-19. Anaesthesia, Critical Care & Pain Medicine, 2020, 39, 691-693.	1.4	7
36	An Overview of Deep Learning Approaches in Chest Radiograph. IEEE Access, 2020, 8, 182347-182354.	4.2	25

#	ARTICLE	IF	CITATIONS
37	A Deep-Learning-Based Framework for Automated Diagnosis of COVID-19 Using X-ray Images. Information (Switzerland), 2020, 11, 419.	2.9	50
38	Multi-Channel Transfer Learning of Chest X-ray Images for Screening of COVID-19. Electronics (Switzerland), 2020, 9, 1388.	3.1	65
39	PDCOVIDNet: a parallel-dilated convolutional neural network architecture for detecting COVID-19 from chest X-ray images. Health Information Science and Systems, 2020, 8, 27.	5.2	64
40	COVID-19 image classification using deep features and fractional-order marine predators algorithm. Scientific Reports, 2020, 10, 15364.	3.3	182
41	COVID-19 Screening Using a Lightweight Convolutional Neural Network with Generative Adversarial Network Data Augmentation. Symmetry, 2020, 12, 1530.	2.2	38
42	A combined deep CNN-LSTM network for the detection of novel coronavirus (COVID-19) using X-ray images. Informatics in Medicine Unlocked, 2020, 20, 100412.	3.4	436
43	DL-CRC: Deep Learning-Based Chest Radiograph Classification for COVID-19 Detection: A Novel Approach. IEEE Access, 2020, 8, 171575-171589.	4.2	108
44	A Study on Fight Against COVID-19 from Latest Technological Intervention. SN Computer Science, 2020, 1, 277.	3.6	6
45	Fast COVID-19 and Pneumonia Classification Using Chest X-ray Images. Mathematics, 2020, 8, 1423.	2.2	27
46	End-To-End Deep Learning Framework for Coronavirus (COVID-19) Detection and Monitoring. Electronics (Switzerland), 2020, 9, 1439.	3.1	77
47	A Lightweight Deep Learning Model for COVID-19 Detection. , 2020, , .		17
48	Differentiating novel coronavirus pneumonia from general pneumonia based on machine learning. BioMedical Engineering OnLine, 2020, 19, 66.	2.7	39
49	How artificial intelligence may help the Covidâ€19 pandemic: Pitfalls and lessons for the future. Reviews in Medical Virology, 2021, 31, 1-11.	8.3	53
50	Deep Convolutional Approaches for the Analysis of COVID-19 Using Chest X-Ray Images From Portable Devices. IEEE Access, 2020, 8, 195594-195607.	4.2	64
51	An ensemble deep transfer-learning approach to identify COVID-19 cases from chest X-ray images. , 2020, , .		9
52	Robust Technique to Detect COVID-19 using Chest X-ray Images. , 2020, , .		14
53	Fuzzy Rule-Based System for Predicting Daily Case in COVID-19 Outbreak. , 2020, , .		11
54	COVIDGR Dataset and COVID-SDNet Methodology for Predicting COVID-19 Based on Chest X-Ray Images. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 3595-3605.	6.3	252

#	Article	IF	Citations
55	An IoT-Based Deep Learning Framework for Early Assessment of Covid-19. IEEE Internet of Things Journal, 2021, 8, 15855-15862.	8.7	57
56	Explainable Machine Learning for Early Assessment of COVID-19 Risk Prediction in Emergency Departments. IEEE Access, 2020, 8, 196299-196325.	4.2	55
57	Possible silent hypoxemia in a COVID-19 patient: A case report. Annals of Medicine and Surgery, 2020, 60, 583-586.	1.1	7
58	AI Techniques and Mathematical Modeling to Detect Coronavirus. Journal of the Institution of Engineers (India): Series B, 2021, 102, 1283-1292.	1.9	5
59	Hybrid-COVID: a novel hybrid 2D/3D CNN based on cross-domain adaptation approach for COVID-19 screening from chest X-ray images. Physical and Engineering Sciences in Medicine, 2020, 43, 1415-1431.	2.4	29
60	COVID-19 Symptoms Detection Based on NasNetMobile with Explainable AI Using Various Imaging Modalities. Machine Learning and Knowledge Extraction, 2020, 2, 490-504.	5.0	65
61	Implementation of convolutional neural network approach for COVID-19 disease detection. Physiological Genomics, 2020, 52, 590-601.	2.3	30
62	A Body Tracking-Based Low-Cost Solution for Monitoring Workers' Hygiene Best Practices during Pandemics. Sensors, 2020, 20, 6149.	3.8	8
63	Significant Applications of Machine Learning for COVID-19 Pandemic. Journal of Industrial Integration and Management, 2020, 05, 453-479.	4.8	111
64	COVID-19 identification in chest X-ray images on flat and hierarchical classification scenarios. Computer Methods and Programs in Biomedicine, 2020, 194, 105532.	4.7	354
65	CoroNet: A deep neural network for detection and diagnosis of COVID-19 from chest x-ray images. Computer Methods and Programs in Biomedicine, 2020, 196, 105581.	4.7	882
66	Explainable Deep Learning for Pulmonary Disease and Coronavirus COVID-19 Detection from X-rays. Computer Methods and Programs in Biomedicine, 2020, 196, 105608.	4.7	429
67	CovXNet: A multi-dilation convolutional neural network for automatic COVID-19 and other pneumonia detection from chest X-ray images with transferable multi-receptive feature optimization. Computers in Biology and Medicine, 2020, 122, 103869.	7.0	356
68	Systematic review of artificial intelligence techniques in the detection and classification of COVID-19 medical images in terms of evaluation and benchmarking: Taxonomy analysis, challenges, future solutions and methodological aspects. Journal of Infection and Public Health, 2020, 13, 1381-1396.	4.1	182
69	Applications of machine learning and artificial intelligence for Covid-19 (SARS-CoV-2) pandemic: A review. Chaos, Solitons and Fractals, 2020, 139, 110059.	5.1	558
70	Automated Deep Transfer Learning-Based Approach for Detection of COVID-19 Infection in Chest X-rays. Irbm, 2022, 43, 114-119.	5.6	178
71	COVID-19 contact tracing apps: the 'elderly paradox'. Public Health, 2020, 185, 127.	2.9	22
72	Prediction models for diagnosis and prognosis of covid-19: systematic review and critical appraisal. BMJ, The, 2020, 369, m1328.	6.0	2,134

#	Article	IF	Citations
73	Deep neural network to detect COVID-19: one architecture for both CT Scans and Chest X-rays. Applied Intelligence, 2021, 51, 2777-2789.	5.3	146
74	A new deep learning pipeline to detect Covid-19 on chest X-ray images using local binary pattern, dual tree complex wavelet transform and convolutional neural networks. Applied Intelligence, 2021, 51, 2740-2763.	5.3	21
75	Deep learning and medical image processing for coronavirus (COVID-19) pandemic: A survey. Sustainable Cities and Society, 2021, 65, 102589.	10.4	300
76	Analysis of public reactions to the novel Coronavirus (COVID-19) outbreak on Twitter. Kybernetes, 2021, 50, 1633-1653.	2.2	23
77	A diagnostic genomic signal processing (GSP)-based system for automatic feature analysis and detection of COVID-19. Briefings in Bioinformatics, 2021, 22, 1197-1205.	6.5	27
78	Deep Neural Network-Based Screening Model for COVID-19-Infected Patients Using Chest X-Ray Images. International Journal of Pattern Recognition and Artificial Intelligence, 2021, 35, 2151004.	1.2	77
79	Applications of artificial intelligence in battling against covid-19: A literature review. Chaos, Solitons and Fractals, 2021, 142, 110338.	5.1	131
80	Cascaded deep learning classifiers for computer-aided diagnosis of COVID-19 and pneumonia diseases in X-ray scans. Complex & Intelligent Systems, 2021, 7, 235-247.	6.5	108
81	OptCoNet: an optimized convolutional neural network for an automatic diagnosis of COVID-19. Applied Intelligence, 2021, 51, 1351-1366.	5.3	113
82	Coronavirus disease (COVID-19) detection in Chest X-Ray images using majority voting based classifier ensemble. Expert Systems With Applications, 2021, 165, 113909.	7.6	201
83	Learning distinctive filters for COVID-19 detection from chest X-ray using shuffled residual CNN. Applied Soft Computing Journal, 2021, 99, 106744.	7.2	70
84	MH-COVIDNet: Diagnosis of COVID-19 using deep neural networks and meta-heuristic-based feature selection on X-ray images. Biomedical Signal Processing and Control, 2021, 64, 102257.	5.7	96
85	Coronavirus disease (COVID-19) prevention and treatment methods and effective parameters: A systematic literature review. Sustainable Cities and Society, 2021, 64, 102568.	10.4	84
86	Deep learning based detection and analysis of COVID-19 on chest X-ray images. Applied Intelligence, 2021, 51, 1690-1700.	5.3	338
87	Automatically discriminating and localizing COVID-19 from community-acquired pneumonia on chest X-rays. Pattern Recognition, 2021, 110, 107613.	8.1	119
88	Artificial intelligence (AI) impacting diagnosis of glaucoma and understanding the regulatory aspects of AI-based software as medical device. Computerized Medical Imaging and Graphics, 2021, 87, 101818.	5.8	21
89	Attention-based VGG-16 model for COVID-19 chest X-ray image classification. Applied Intelligence, 2021, 51, 2850-2863.	5.3	180
90	CNN-based transfer learningâ€“BiLSTM network: A novel approach for COVID-19 infection detection. Applied Soft Computing Journal, 2021, 98, 106912.	7.2	233

#	Article	IF	Citations
91	CoroDet: A deep learning based classification for COVID-19 detection using chest X-ray images. Chaos, Solitons and Fractals, 2021, 142, 110495.	5.1	274
92	Classification of COVID-19 chest X-rays with deep learning: new models or fine tuning?. Health Information Science and Systems, 2021, 9, 2.	5.2	123
93	â€œFast deep learning computer-aided diagnosis of COVID-19 based on digital chest x-ray imagesâ€• Applied Intelligence, 2021, 51, 2890-2907.	5.3	66
94	Differentiation of COVID-19 conditions in planar chest radiographs using optimized convolutional neural networks. Applied Intelligence, 2021, 51, 2764-2775.	5.3	9
95	Application of deep learning techniques for detection of COVID-19 cases using chest X-ray images: A comprehensive study. Biomedical Signal Processing and Control, 2021, 64, 102365.	5.7	282
96	Detecting COVID-19 patients based on fuzzy inference engine and Deep Neural Network. Applied Soft Computing Journal, 2021, 99, 106906.	7.2	74
97	Automatic detection of COVID-19 from chest radiographs using deep learning. Radiography, 2021, 27, 483-489.	2.1	41
98	Information technology solutions, challenges, and suggestions for tackling the COVID-19 pandemic. International Journal of Information Management, 2021, 57, 102287.	17.5	253
99	InstaCovNet-19: A deep learning classification model for the detection of COVID-19 patients using Chest X-ray. Applied Soft Computing Journal, 2021, 99, 106859.	7.2	157
100	Deep transfer learning-based automated detection of COVID-19 from lung CT scan slices. Applied Intelligence, 2021, 51, 571-585.	5.3	253
101	An optimized deep learning architecture for the diagnosis of COVID-19 disease based on gravitational search optimization. Applied Soft Computing Journal, 2021, 98, 106742.	7.2	118
102	Methodology adopted for designing of computer-aided classification systems for chest radiographs. , 2021, , 59-115.		0
104	COVID-19 as a Driver for Digital Transformation in Healthcare. Future of Business and Finance, 2021, , 93-102.	0.4	1
106	Deep Learning-Based Drug Screening for COVID-19 and Case Studies. Methods in Pharmacology and Toxicology, 2021, , 631-660.	0.2	6
107	Intelligent Decision Support System for COVID-19 Empowered with Deep Learning. Computers, Materials and Continua, 2021, 66, 1719-1732.	1.9	9
108	COV19-CNNet and COV19-ResNet: Diagnostic Inference Engines for Early Detection of COVID-19. Cognitive Computation, 2021, , 1-11.	5.2	39
109	COVID-19 Diagnosis Using Transfer-Learning Techniques. Intelligent Automation and Soft Computing, 2021, 29, 649-667.	2.1	5
111	Battling COVID-19 using machine learning: A review. Cogent Engineering, 2021, 8, .	2.2	19

#	Article	IF	Citations
112	Deep Learning for COVID-19. Studies in Systems, Decision and Control, 2021, , 551-565.	1.0	1
113	A Modern Paradigm for Diagnosing Novel Coronavirus Disease (COVID-19) Using Multilayer Customized CNN via X-ray Images. Communications in Computer and Information Science, 2021, , 539-551.	0.5	0
114	Chest X-ray image phase features for improved diagnosis of COVID-19 using convolutional neural network. International Journal of Computer Assisted Radiology and Surgery, 2021, 16, 197-206.	2.8	45
115	From Hume to Wuhan: An Epistemological Journey on the Problem of Induction in COVID-19 Machine Learning Models and its Impact Upon Medical Research. IEEE Access, 2021, 9, 97243-97250.	4.2	8
116	CovFrameNet: An Enhanced Deep Learning Framework for COVID-19 Detection. IEEE Access, 2021, 9, 77905-77919.	4.2	36
117	Internet of Things Framework for Oxygen Saturation Monitoring in COVID-19 Environment. IEEE Internet of Things Journal, 2022, 9, 3631-3641.	8.7	14
118	Automatic Evaluation of the Lung Condition of COVID-19 Patients Using X-ray Images and Convolutional Neural Networks. Journal of Personalized Medicine, 2021, 11, 28.	2.5	18
119	Artificial intelligence in clinical care amidst COVID-19 pandemic: A systematic review. Computational and Structural Biotechnology Journal, 2021, 19, 2833-2850.	4.1	58
120	A Survey of Data Storing and Processing Techniques for IoT in Healthcare Systems. Algorithms for Intelligent Systems, 2021, , 417-436.	0.6	0
121	Detection of COVID-19 Using Deep Learning on X-Ray Images. Intelligent Automation and Soft Computing, 2021, 29, 885-898.	2.1	8
122	DenTcov: Deep Transfer Learning-Based Automatic Detection of Coronavirus Disease (COVID-19) Using Chest X-ray Images. Lecture Notes in Networks and Systems, 2021, , 967-977.	0.7	3
123	Classification Approach for COVID-19 Gene Based on Harris Hawks Optimization. Studies in Systems, Decision and Control, 2021, , 575-594.	1.0	4
126	Classification of lung infected Corona Virus X Ray Images using Deep Learning CNN Model. IOP Conference Series: Materials Science and Engineering, 2021, 1049, 012021.	0.6	1
127	A critical investigation on blind guiding device using cnn algorithm based on motion stereo tomography images. Materials Today: Proceedings, 2021, , .	1.8	3
128	Detection of COVID-19 from Chest X-Ray Images Using Deep Neural Network with Fine-Tuning Approach. Advances in Intelligent Systems and Computing, 2021, , 33-42.	0.6	0
129	CapsCovNet: A Modified Capsule Network to Diagnose COVID-19 From Multimodal Medical Imaging. IEEE Transactions on Artificial Intelligence, 2021, 2, 608-617.	4.7	11
130	Imbalance in Learning Chest X-Ray Images for COVID-19 Detection. Studies in Computational Intelligence, 2021, , 107-119.	0.9	3
131	COV-VGX: An automated COVID-19 detection system using X-ray images and transfer learning. Informatics in Medicine Unlocked, 2021, 26, 100741.	3.4	6

#	ARTICLE	IF	CITATIONS
132	Deep Convolutional Neural Network (CNN) Design for Pathology Detection of COVID-19 in Chest X-Ray Images. Lecture Notes in Computer Science, 2021, , 211-223.	1.3	4
133	Discovery of a Generalization Gap of Convolutional Neural Networks on COVID-19 X-Rays Classification. IEEE Access, 2021, 9, 72970-72979.	4.2	28
134	End-to-end pre-trained CNN-based computer-aided classification system design for chest radiographs. , 2021, , 117-140.		3
135	Machine Learning-Based Asthma Risk Prediction Using IoT and Smartphone Applications. IEEE Access, 2021, 9, 118708-118715.	4.2	11
136	Chest X-Ray Outlier Detection Model Using Dimension Reduction and Edge Detection. IEEE Access, 2021, 9, 86096-86106.	4.2	11
137	Artificial intelligence in the diagnosis of COVID-19: challenges and perspectives. International Journal of Biological Sciences, 2021, 17, 1581-1587.	6.4	74
138	Detection of COVID-19 Enhanced by a Deep Extreme Learning Machine. Intelligent Automation and Soft Computing, 2021, 27, 701-712.	2.1	10
139	Realizing an Effective COVID-19 Diagnosis System Based on Machine Learning and IoT in Smart Hospital Environment. IEEE Internet of Things Journal, 2021, 8, 15919-15928.	8.7	134
140	Visualization and Prediction of COVID-19 Using AI and ML. , 2021, , 99-112.		0
141	Artificial Intelligence in face of the Novel CoronaVirus. Studies in Computational Intelligence, 2021, , 43-71.	0.9	0
143	Predicting the COVID-19 Cases in India. Advances in Intelligent Systems and Computing, 2021, , 299-311.	0.6	0
144	Review of related work. , 2021, , 35-57.		0
145	Social Network Analysis and Visualization of Arabic Tweets During the COVID-19 Pandemic. IEEE Access, 2021, 9, 90616-90630.	4.2	16
146	COVIDScreen: explainable deep learning framework for differential diagnosis of COVID-19 using chest X-rays. Neural Computing and Applications, 2021, 33, 8871-8892.	5.6	68
147	Optimized NASNet for Diagnosis of COVID-19 from Lung CT Images. Advances in Intelligent Systems and Computing, 2021, , 647-656.	0.6	13
148	A deep learning-based COVID-19 automatic diagnostic framework using chest X-ray images. Biocybernetics and Biomedical Engineering, 2021, 41, 239-254.	5.9	41
149	An Interpretable Deep Learning Model for Covid-19 Detection With Chest X-Ray Images. IEEE Access, 2021, 9, 85198-85208.	4.2	27
150	Role of Machine Learning Techniques to Tackle the COVID-19 Crisis: Systematic Review. JMIR Medical Informatics, 2021, 9, e23811.	2.6	100

#	Article	IF	Citations
151	IoT enabled depthwise separable convolution neural network with deep support vector machine for COVID-19 diagnosis and classification. International Journal of Machine Learning and Cybernetics, 2021, 12, 3235-3248.	3.6	94
152	Early Detection of COVID-19 from CT Scans Using Deep Learning Techniques. Lecture Notes in Electrical Engineering, 2021, , 51-64.	0.4	0
153	A Novel Bayesian Optimization-Based Machine Learning Framework for COVID-19 Detection From Inpatient Facility Data. IEEE Access, 2021, 9, 10263-10281.	4.2	52
154	Application of IoT, AI, and 5G in the Fight Against the COVID-19 Pandemic. Studies in Computational Intelligence, 2021, , 213-234.	0.9	1
156	Real-Time COVID-19 Detection and Prediction Using Chest X-rays and CT Scan: A Comparative Study Using AI. Algorithms for Intelligent Systems, 2021, , 781-790.	0.6	0
158	Run length encoding based wavelet features for COVID-19 detection in X-rays. BJR|Open, 2021, 3, 20200028.	0.6	2
159	Utilization of Artificial Intelligence in Medical Image Analysis for COVID-19 Patients Detection. Intelligent Automation and Soft Computing, 2021, 29, 97-111.	2.1	2
160	Diagnosis of corona diseases from associated genes and X-ray images using machine learning algorithms and deep CNN. Informatics in Medicine Unlocked, 2021, 24, 100621.	3.4	12
161	Supervised Machine Learning-Based Prediction of COVID-19. Computers, Materials and Continua, 2021, 69, 21-34.	1.9	18
162	COVID-19 identification from volumetric chest CT scans using a progressively resized 3D-CNN incorporating segmentation, augmentation, and class-rebalancing. Informatics in Medicine Unlocked, 2021, 26, 100709.	3.4	12
163	Automatic Detection of COVID-19 Using a Stacked Denoising Convolutional Autoencoder. Computers, Materials and Continua, 2021, 69, 3259-3274.	1.9	4
164	Deep GRU-CNN Model for COVID-19 Detection From Chest X-Rays Data. IEEE Access, 2022, 10, 35094-35105.	4.2	29
165	Automated Detection and Quantification of COVID-19 Airspace Disease on Chest Radiographs. Investigative Radiology, 2021, 56, 471-479.	6.2	16
166	Evaluation of deep learning-based approaches for COVID-19 classification based on chest X-ray images. Signal, Image and Video Processing, 2021, 15, 959-966.	2.7	56
167	Applying Different Machine Learning Techniques for Prediction of COVID-19 Severity. IEEE Access, 2021, 9, 135697-135707.	4.2	21
168	Big Data Analytics for Modeling COVID-19 and Comorbidities: An Unmet Need. EAI/Springer Innovations in Communication and Computing, 2021, , 185-201.	1.1	0
169	VGG-CovidNet: Bi-Branched Dilated Convolutional Neural Network for Chest X-Ray-Based COVID-19 Predictions. Computers, Materials and Continua, 2021, 68, 2791-2806.	1.9	3
170	Detection of Coronavirus (COVID-19) Using Deep Convolutional Neural Networks with Transfer Learning Using Chest X-Ray Images. Studies in Computational Intelligence, 2021, , 63-77.	0.9	4

#	ARTICLE	IF	CITATIONS
171	Lung Segmentation-Based Pulmonary Disease Classification Using Deep Neural Networks. IEEE Access, 2021, 9, 125202-125214.	4.2	6
172	Diagnosis of COVID-19 Infection Using Three-Dimensional Semantic Segmentation and Classification of Computed Tomography Images. Computers, Materials and Continua, 2021, 68, 2451-2467.	1.9	12
173	A Novel Deep Learning Model for COVID-19 Detection from Combined Heterogeneous X-ray and CT Chest Images. Lecture Notes in Computer Science, 2021, , 378-383.	1.3	1
174	Accurate detection of Covid-19 patients based on Feature Correlated Naïve Bayes (FCNB) classification strategy. Journal of Ambient Intelligence and Humanized Computing, 2022, 13, 41-73.	4.9	43
176	Meta-analysis of predictions of COVID-19 disease based on CT-scan and X-ray images. Journal of Interdisciplinary Mathematics, 2021, 24, 381-409.	0.7	8
177	COVID-19 Detection from Chest X-ray Images Using Feature Fusion and Deep Learning. Sensors, 2021, 21, 1480.	3.8	112
178	COVID-19 detection from scarce chest x-ray image data using few-shot deep learning approach. , 2021, , .		22
179	Corona-Nidaan: lightweight deep convolutional neural network for chest X-Ray based COVID-19 infection detection. Applied Intelligence, 2021, 51, 3026-3043.	5.3	33
180	Fast and Accurate Detection of COVID-19 Along With 14 Other Chest Pathologies Using a Multi-Level Classification: Algorithm Development and Validation Study. Journal of Medical Internet Research, 2021, 23, e23693.	4.3	24
181	Using artificial intelligence techniques for COVID-19 genome analysis. Applied Intelligence, 2021, 51, 3086-3103.	5.3	61
182	Diagnosis of COVID-19 using CT scan images and deep learning techniques. Emergency Radiology, 2021, 28, 497-505.	1.8	202
183	Specialized covid-19 detection techniques with machine learning. Journal of Physics: Conference Series, 2021, 1797, 012033.	0.4	0
184	Does Two-Class Training Extract Real Features? A COVID-19 Case Study. Applied Sciences (Switzerland), 2021, 11, 1424.	2.5	6
185	Development and Validation of a Machine Learning Approach for Automated Severity Assessment of COVID-19 Based on Clinical and Imaging Data: Retrospective Study. JMIR Medical Informatics, 2021, 9, e24572.	2.6	36
186	Future <scp>IoT</scp> tools for <scp>COVID</scp>â€19 contact tracing and prediction: A review of the stateâ€ofâ€theâ€science. International Journal of Imaging Systems and Technology, 2021, 31, 455-471.	4.1	58
187	COVID-19 lung CT image segmentation using deep learning methods: U-Net versus SegNet. BMC Medical Imaging, 2021, 21, 19.	2.7	150
188	XCOVNet: Chest X-ray Image Classification for COVID-19 Early Detection Using Convolutional Neural Networks. New Generation Computing, 2021, 39, 583-597.	3.3	43
189	Deep learning approaches for COVID-19 detection based on chest X-ray images. Expert Systems With Applications, 2021, 164, 114054.	7.6	490

#	ARTICLE	IF	CITATIONS
190	Content Based COVID-19 Chest X-Ray and CT Images Retrieval framework using Stacked Auto-Encoders. , 2021, , .		6
191	Non-Adherence Tree Analysis (NATA)â€"An adherence improvement framework: A COVID-19 case study. PLoS ONE, 2021, 16, e0247109.	2.5	1
192	<scp>COVID</scp>â€19 vs influenza viruses: A cockroach optimized deep neural network classification approach. International Journal of Imaging Systems and Technology, 2021, 31, 472-482.	4.1	12
193	COVID-DeepPredictor: Recurrent Neural Network to Predict SARS-CoV-2 and Other Pathogenic Viruses. Frontiers in Genetics, 2021, 12, 569120.	2.3	12
194	Recognition of corona virus disease (COVID-19) using deep learning network. International Journal of Electrical and Computer Engineering, 2021, 11, 365.	0.7	6
195	Chest X-ray image classification for viral pneumonia and Ð¡ovid-19 using neural networks. Computer Optics, 2021, 45, .	2.2	5
196	COVID-19 Detection by Optimizing Deep Residual Features with Improved Clustering-Based Golden Ratio Optimizer. Diagnostics, 2021, 11, 315.	2.6	33
197	Current limitations to identify COVID-19 using artificial intelligence with chest X-ray imaging. Health and Technology, 2021, 11, 411-424.	3.6	61
198	Deep Learning based Detection and Segmentation of COVID-19 & Pneumonia on Chest X-ray Image. , 2021, , .		26
199	A novel method for detection of COVID-19 cases using deep residual neural network. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2021, 9, 555-564.	1.9	2
201	Automatic detection and localization of <scp>COVID</scp>â€19 pneumonia using axial computed tomography images and deep convolutional neural networks. International Journal of Imaging Systems and Technology, 2021, 31, 509-524.	4.1	14
202	Triage of potential COVID-19 patients from chest X-ray images using hierarchical convolutional networks. Neural Computing and Applications, 2023, 35, 23861-23876.	5.6	22
203	A deep learning model for mass screening of <scp>COVID</scp>â€19. International Journal of Imaging Systems and Technology, 2021, 31, 483-498.	4.1	21
204	Protecting Personal Healthcare Record Using Blockchain & Federated Learning Technologies. , 2021, , .		17
205	COVID-19: a new deep learning computer-aided model for classification. PeerJ Computer Science, 2021, 7, e358.	4.5	33
206	SOM-LWL method for identification of COVID-19 on chest X-rays. PLoS ONE, 2021, 16, e0247176.	2.5	21
207	Monitoring social distancing under various low light conditions with deep learning and a single motionless time of flight camera. PLoS ONE, 2021, 16, e0247440.	2.5	38
208	COVID-19 diagnosis from chest X-ray images using transfer learning: Enhanced performance by debiasing dataloader. Journal of X-Ray Science and Technology, 2021, 29, 19-36.	1.0	21

#	ARTICLE	IF	CITATIONS
209	Automatic Detection of COVID 19 Infection Using Deep Learning Models from X-Ray Images. IOP Conference Series: Materials Science and Engineering, 2021, 1099, 012050.	0.6	3
210	COVID-19 detection from Xray and CT scans using transfer learning. , 2021, , .		22
211	Computer aid screening of COVID-19 using X-ray and CT scan images: An inner comparison. Journal of X-Ray Science and Technology, 2021, 29, 197-210.	1.0	14
212	COVID-19 Infection Detection from Chest X-Ray Images Using Hybrid Social Group Optimization and Support Vector Classifier. Cognitive Computation, 2021, , 1-13.	5.2	47
213	A novel Covid-19 and pneumonia classification method based on F-transform. Chemometrics and Intelligent Laboratory Systems, 2021, 210, 104256.	3.5	53
214	Convolutional capsule network for <scp>COVID</scp>â€19 detection using radiography images. International Journal of Imaging Systems and Technology, 2021, 31, 525-539.	4.1	42
215	Covid-19 Diagnosis Based on CT Images Using Pre-Trained Models. , 2021, , .		3
216	Role of Hybrid Deep Neural Networks (HDNNs), Computed Tomography, and Chest X-rays for the Detection of COVID-19. International Journal of Environmental Research and Public Health, 2021, 18, 3056.	2.6	68
217	Deep learning diagnostic and risk-stratification pattern detection for COVID-19 in digital lung auscultations: clinical protocol for a caseâ€"control and prospective cohort study. BMC Pulmonary Medicine, 2021, 21, 103.	2.0	16
218	Deep Learningâ€"Driven Automated Detection of COVID-19 from Radiography Images: a Comparative Analysis. Cognitive Computation, 2021, , 1-30.	5.2	25
219	Progress in robotics for combating infectious diseases. Science Robotics, 2021, 6, .	17.6	67
220	The Effectiveness of Image Augmentation in Deep Learning Networks for Detecting COVID-19: A Geometric Transformation Perspective. Frontiers in Medicine, 2021, 8, 629134.	2.6	45
221	Efficient COVID-19 Segmentation from CT Slices Exploiting Semantic Segmentation with Integrated Attention Mechanism. Journal of Digital Imaging, 2021, 34, 263-272.	2.9	23
222	Automatic COVID-19 detection from X-ray images using ensemble learning with convolutional neural network. Pattern Analysis and Applications, 2021, 24, 1111-1124.	4.6	125
223	A Hybrid Model for COVID-19 Monitoring and Prediction. Electronics (Switzerland), 2021, 10, 799.	3.1	12
224	A narrative review on characterization of acute respiratory distress syndrome in COVID-19-infected lungs using artificial intelligence. Computers in Biology and Medicine, 2021, 130, 104210.	7.0	46
225	Metaheuristic-based Deep COVID-19 Screening Model from Chest X-Ray Images. Journal of Healthcare Engineering, 2021, 2021, 1-9.	1.9	67
226	COVID-SEGNET: Diagnosis of Covid-19 Cases on Radiological Images using Mask R-CNN. , 2021, , .		9

#	Article	IF	Citations
227	COVID-19 Diagnosis using X-Ray Images and Deep learning. , 2021, , .		17
228	Detection And Diagnosis Of Covid-19 From Chest X-Ray Images. , 2021, , .		5
229	Significance of deep learning for Covid-19: state-of-the-art review. Research on Biomedical Engineering, 2022, 38, 243-266.	2.2	14
230	Detection of COVID-19 in chest X-ray images using transfer learning with deep convolutional neural network. , 2021, , .		0
231	Deep Learning in the Detection and Diagnosis of COVID-19 Using Radiology Modalities: A Systematic Review. Journal of Healthcare Engineering, 2021, 2021, 1-10.	1.9	69
232	Convolutional neural network model based on radiological images to support COVID-19 diagnosis: Evaluating database biases. PLoS ONE, 2021, 16, e0247839.	2.5	22
233	A Deep-Learning-Based Edge-Centric COVID-19-Like Pandemic Screening and Diagnosis System within a B5G Framework Using Blockchain. IEEE Network, 2021, 35, 74-81.	6.9	24
234	Deep learning-based improved snapshot ensemble technique for COVID-19 chest X-ray classification. Applied Intelligence, 2021, 51, 3104-3120.	5.3	24
235	Systems and Clinical Pharmacology of COVID-19 Therapeutic Candidates: A Clinical and Translational Medicine Perspective. Journal of Pharmaceutical Sciences, 2021, 110, 1002-1017.	3.3	14
236	Combining Initial Radiographs and Clinical Variables Improves Deep Learning Prognostication in Patients with COVID-19 from the Emergency Department. Radiology: Artificial Intelligence, 2021, 3, e200098.	5.8	47
237	COVID-19 X-ray images classification based on enhanced fractional-order cuckoo search optimizer using heavy-tailed distributions. Applied Soft Computing Journal, 2021, 101, 107052.	7.2	74
238	A Rapid Deep Learning Computer-Aided Diagnosis to Simultaneously Detect and Classify the Novel COVID-19 Pandemic. , 2021, , .		3
239	Information to Wisdom: Commonsense Knowledge Extraction and Compilation. , 2021, , .		16
240	Application of Machine Learning in Diagnosis of COVID-19 Through X-Ray and CT Images: A Scoping Review. Frontiers in Cardiovascular Medicine, 2021, 8, 638011.	2.4	63
241	Pneumonia Detection Using an Improved Algorithm Based on Faster R-CNN. Computational and Mathematical Methods in Medicine, 2021, 2021, 1-13.	1.3	22
242	Machine Learning for Prediction of Survival Outcomes with Immune-Checkpoint Inhibitors in Urothelial Cancer. Cancers, 2021, 13, 2001.	3.7	12
243	Comparative Analysis of COVID-19 X-ray Images Classification Using Convolutional Neural Network, Transfer Learning, and Machine Learning Classifiers Using Deep Features. Pattern Recognition and Image Analysis, 2021, 31, 313-322.	1.0	16
244	Convolutional neural networks and temporal CNNs for COVID-19 forecasting in France. Applied Intelligence, 2021, 51, 8784-8809.	5.3	28

#	ARTICLE	IF	CITATIONS
245	Automated major depressive disorder detection using melamine pattern with EEG signals. Applied Intelligence, 2021, 51, 6449-6466.	5.3	29
246	Automated detection of COVID-19 from CT scan using convolutional neural network. Biocybernetics and Biomedical Engineering, 2021, 41, 572-588.	5.9	48
247	Coronavirus (COVID-19) detection from chest radiology images using convolutional neural networks. Biomedical Signal Processing and Control, 2021, 66, 102490.	5.7	52
248	COVID-19 infection map generation and detection from chest X-ray images. Health Information Science and Systems, 2021, 9, 15.	5.2	61
249	Detection and Classification of COVID 19 using Convolutional Neural Network from Chest X-ray Images. , 2021, , .		6
250	Machine Learning Models for Image-Based Diagnosis and Prognosis of COVID-19: Systematic Review. JMIR Medical Informatics, 2021, 9, e25181.	2.6	23
251	Detection of COVID-19 from CT Lung Scans Using Transfer Learning. Computational Intelligence and Neuroscience, 2021, 2021, 1-14.	1.7	26
252	Automatic detection of oil palm fruits from UAV images using an improved YOLO model. Visual Computer, 2022, 38, 2341-2355.	3.5	41
253	Deep CNN models for predicting COVID-19 in CT and x-ray images. Journal of Medical Imaging, 2021, 8, 014502.	1.5	32
254	A novel augmented deep transfer learning for classification of COVID-19 and other thoracic diseases from X-rays. Neural Computing and Applications, 2021, 33, 14037-14048.	5.6	17
255	COVID-CT-MD, COVID-19 computed tomography scan dataset applicable in machine learning and deep learning. Scientific Data, 2021, 8, 121.	5.3	108
256	Medical image analysis based on deep learning approach. Multimedia Tools and Applications, 2021, 80, 1-34.	3.9	106
257	Discovering symptom patterns of COVID-19 patients using association rule mining. Computers in Biology and Medicine, 2021, 131, 104249.	7.0	66
258	An Uncertainty-Aware Transfer Learning-Based Framework for COVID-19 Diagnosis. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 1408-1417.	11.3	95
259	CNN based Covid-aid: Covid 19 Detection using Chest X-ray. , 2021, , .		20
260	SkinXNet: A DoG-based Model for Automatic Detection of Skin Lesion using Deep Learning. , 2021, , .		0
261	RANDGAN: Randomized generative adversarial network for detection of COVID-19 in chest X-ray. Scientific Reports, 2021, 11, 8602.	3.3	40
262	Competitive Deep Learning Methods for COVID-19 Detection using X-ray Images. Journal of the Institution of Engineers (India): Series B, 2021, 102, 1177-1190.	1.9	12

#	ARTICLE	IF	CITATIONS
263	A Novel Method for COVID-19 Diagnosis Using Artificial Intelligence in Chest X-ray Images. Healthcare (Switzerland), 2021, 9, 522.	2.0	58
264	COVIDetection-Net: A tailored COVID-19 detection from chest radiography images using deep learning. Optik, 2021, 231, 166405.	2.9	32
265	Evolving Deep Learning Convolutional Neural Networks for Early COVID-19 Detection in Chest X-ray Images. Mathematics, 2021, 9, 1002.	2.2	37
266	Clinical Factors and Quantitative CT Parameters Associated With ICU Admission in Patients of COVID-19 Pneumonia: A Multicenter Study. Frontiers in Public Health, 2021, 9, 648360.	2.7	3
267	Application of Artificial Intelligence for Screening COVID-19 Patients Using Digital Images: Meta-analysis. JMIR Medical Informatics, 2021, 9, e21394.	2.6	7
268	Training Convolutional Neural Networks (CNN) for Counterfeit IC Detection by the Use of Simulated X-Ray Images. , 2021, , .		0
269	Hybrid ensemble model for differential diagnosis between COVID-19 and common viral pneumonia by chest X-ray radiograph. Computers in Biology and Medicine, 2021, 131, 104252.	7.0	48
270	Transfer Learning for Detection of COVID-19 Infection using Chest X-Ray Images. , 2021, , .		4
271	COVID-19 in the Age of Artificial Intelligence: A Comprehensive Review. Interdisciplinary Sciences, Computational Life Sciences, 2021, 13, 153-175.	3.6	34
272	The Role of Machine Learning to Fight COVID-19. International Journal of Intelligent Engineering and Systems, 2021, 14, 121-135.	0.6	5
273	Detection of new coronavirus disease from chest x-ray images using pre-trained convolutional neural networks. Journal of the Faculty of Engineering and Architecture of Gazi University, 2021, 36, 2095-2108.	0.8	4
274	COVID-19 Detection Empowered with Machine Learning and Deep Learning Techniques: A Systematic Review. Applied Sciences (Switzerland), 2021, 11, 3414.	2.5	41
276	Internet of Things and Distributed Denial of Service as Risk Factors in Information Security. , 0, , .		0
277	Chest X-ray Classification Using Deep Learning for Automated COVID-19 Screening. SN Computer Science, 2021, 2, 300.	3.6	64
278	Transfer Learning to Detect COVID-19 Automatically from X-Ray Images Using Convolutional Neural Networks. International Journal of Biomedical Imaging, 2021, 2021, 1-9.	3.9	70
279	An artificial intelligence system for predicting the deterioration of COVID-19 patients in the emergency department. Npj Digital Medicine, 2021, 4, 80.	10.9	84
280	COVID-19 Patients Detection in Chest X-ray Images via MCFF-Net. , 2021, , .		3
281	Overview of current state of research on the application of artificial intelligence techniques for COVID-19. PeerJ Computer Science, 2021, 7, e564.	4.5	38

#	Article	IF	Citations
282	FocusCovid: automated COVID-19 detection using deep learning with chest X-ray images. Evolving Systems, 2022, 13, 519-533.	3.9	36
283	Boosting Performance of Transfer Learning Model for Diagnosis of COVID-19 from Computer Tomography Scans. SDU Journal of Science, 2021, 16, 35-45.	0.3	3
284	ECOVNet: a highly effective ensemble based deep learning model for detecting COVID-19. PeerJ Computer Science, 2021, 7, e551.	4.5	34
285	Explainable Deep Neural Models for COVID-19 Prediction from Chest X-Rays with Region of Interest Visualization. , 2021, , .		7
286	Generation of Synthetic Chest X-ray Images and Detection of COVID-19: A Deep Learning Based Approach. Diagnostics, 2021, 11, 895.	2.6	39
287	Machine learning-based prognostic modeling using clinical data and quantitative radiomic features from chest CT images in COVID-19 patients. Computers in Biology and Medicine, 2021, 132, 104304.	7.0	92
288	Classification of COVID-19 electrocardiograms by using hexaxial feature mapping and deep learning. BMC Medical Informatics and Decision Making, 2021, 21, 170.	3.0	51
289	A scalable framework for smart <scp>COVID</scp> surveillance in the workplace using <scp>Deep Neural Networks</scp> and cloud computing. Expert Systems, 2022, 39, e12704.	4.5	13
290	Deep Learning-Based COVID-19 Detection Using CT and X-Ray Images: Current Analytics and Comparisons. IT Professional, 2021, 23, 63-68.	1.5	42
291	Convolutional Neural Network Approach in Covid-19 Screening in Asymptomatic Individuals. , 2021, , .		0
292	An Automated Early Detection and Classification Method for COVID-19 Stages based on deep learning technique using chest CT images.(Dept.E). MEJ - Mansoura Engineering Journal, 2021, 46, 31-40.	0.1	0
293	A comprehensive review of imaging findings in COVID-19 -Âstatus in early 2021. European Journal of Nuclear Medicine and Molecular Imaging, 2021, 48, 2500-2524.	6.4	31
295	A Comprehensive Study of Artificial Intelligence and Machine Learning Approaches in Confronting the Coronavirus (COVID-19) Pandemic. International Journal of Health Services, 2021, 51, 446-461.	2.5	27
296	Toward understanding COVID-19 pneumonia: a deep-learning-based approach for severity analysis and monitoring the disease. Scientific Reports, 2021, 11, 11112.	3.3	14
297	An automated COVID-19 detection based on fused dynamic exemplar pyramid feature extraction and hybrid feature selection using deep learning. Computers in Biology and Medicine, 2021, 132, 104356.	7.0	38
298	Maintaining proper health records improves machine learning predictions for novel 2019-nCoV. BMC Medical Informatics and Decision Making, 2021, 21, 172.	3.0	2
299	Analysis of Deep Learning Techniques for Tuberculosis Disease. SN Computer Science, 2021, 2, 1.	3.6	3
300	Artificial intelligence-based approaches for COVID-19 patient management. Intelligent Medicine, 2021, 1, 10-15.	3.1	4

#	Article	IF	Citations
301	Performance of Fuzzy Multi-Criteria Decision Analysis of Emergency System in COVID-19 Pandemic. An Extensive Narrative Review. International Journal of Environmental Research and Public Health, 2021, 18, 5208.	2.6	34
302	Machine learning research towards combating COVID-19: Virus detection, spread prevention, and medical assistance. Journal of Biomedical Informatics, 2021, 117, 103751.	4.3	47
303	Automated COVID-19 Detection from Chest X-Ray Images: A High-Resolution Network (HRNet) Approach. SN Computer Science, 2021, 2, 294.	3.6	20
304	COVID-19 Prediction from Chest X-Ray Images using Transfer Learning. Düzce Üniversitesi Bilim Ve Teknoloji Dergisi, 0, , .	0.7	2
305	Performance Analysis of Deep Learning Frameworks for COVID 19 Detection. , 2021, , .		4
306	The Promise of AI in Detection, Diagnosis, and Epidemiology for Combating COVID-19: Beyond the Hype. Frontiers in Artificial Intelligence, 2021, 4, 652669.	3.4	27
307	COVID-19 diagnosis from CT scans and chest X-ray images using low-cost Raspberry Pi. PLoS ONE, 2021, 16, e0250688.	2.5	24
308	Convolutional neural networks for the diagnosis and prognosis of the coronavirus disease pandemic. Visual Computing for Industry, Biomedicine, and Art, 2021, 4, 12.	3.7	21
309	Automatic prediction of COVID‒‰19 from chest images using modified ResNet50. Multimedia Tools and Applications, 2021, 80, 26451-26463.	3.9	47
310	Ensemble Learner for Covid-19 from Lung X-Ray Images. Journal of Physics: Conference Series, 2021, 1878, 012060.	0.4	0
312	Novel deep transfer learning model for COVID-19 patient detection using X-ray chest images. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 469-478.	4.9	46
313	Attention Based Residual Network for Effective Detection of COVID-19 and Viral Pneumonia. , 2021, , .		4
314	Machine learning for medical imaging‐based COVID‐19 detection and diagnosis. International Journal of Intelligent Systems, 2021, 36, 5085-5115.	5.7	22
315	Efficient deep neural network model for classification of grasp types using sEMG signals. Journal of Ambient Intelligence and Humanized Computing, 2022, 13, 4437-4450.	4.9	14
316	Deep-chest: Multi-classification deep learning model for diagnosing COVID-19, pneumonia, and lung cancer chest diseases. Computers in Biology and Medicine, 2021, 132, 104348.	7.0	173
317	AI for radiographic COVID-19 detection selects shortcuts over signal. Nature Machine Intelligence, 2021, 3, 610-619.	16.0	230
318	DeepCoroNet: A deep LSTM approach for automated detection of COVID-19 cases from chest X-ray images. Applied Soft Computing Journal, 2021, 103, 107160.	7.2	81
319	Artificial Neural Network-Based Deep Learning Model for COVID-19 Patient Detection Using X-Ray Chest Images. Journal of Healthcare Engineering, 2021, 2021, 1-16.	1.9	30

#	Article	IF	Citations
320	Learning from imbalanced COVID-19 chest X-ray (CXR) medical imaging data. Methods, 2022, 202, 31-39.	3.8	2
321	New bag of deep visual words based features to classify chest x-ray images for COVID-19 diagnosis. Health Information Science and Systems, 2021, 9, 24.	5.2	24
322	Deep Learning in Image Analysis for COVID-19 Diagnosis: a Survey. IEEE Latin America Transactions, 2021, 19, 925-936.	1.6	6
323	Comparison of machine learning algorithms for chest X-ray image COVID-19 classification. Journal of Physics: Conference Series, 2021, 1933, 012040.	0.4	9
324	An integrated framework for <scp>COVID</scp>â€19 classification based on classical and quantum transfer learning from a chest radiograph. Concurrency Computation Practice and Experience, 2022, 34, e6434.	2.2	28
325	A Multi-Expert System to Detect COVID-19 Cases in X-ray Images. , 2021, , .		5
326	Deep Learning Transfer with AlexNet for chest X-ray COVID-19 recognition. IEEE Latin America Transactions, 2021, 19, 944-951.	1.6	21
327	Automated COVIDâ€19 detection in chest Xâ€ray images using <scp>fineâ€tuned</scp> deep learning architectures. Expert Systems, 2022, 39, e12749.	4.5	31
328	Segmentation and quantification of COVID-19 infections in CT using pulmonary vessels extraction and deep learning. Multimedia Tools and Applications, 2021, 80, 29367-29399.	3.9	32
329	Performance Analysis of Machine Learning Algorithms in Detection of COVID-19 from Common Symptoms. , 2021, , .		4
330	A novel machine learningâ€based analytical framework for automatic detection of <scp>COVID</scp>â€19 using chest <scp>Xâ€ray</scp> images. International Journal of Imaging Systems and Technology, 2021, 31, 1105-1119.	4.1	21
331	Automated Detection of COVID-19 Cases on Radiographs using Shape-Dependent Fibonacci-p Patterns. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 1852-1863.	6.3	20
332	CoVNet-19: A Deep Learning model for the detection and analysis of COVID-19 patients. Applied Soft Computing Journal, 2021, 104, 107184.	7.2	56
333	Deep Learningâ€"Based COVID-19 Pneumonia Classification Using Chest CT Images: Model Generalizability. Frontiers in Artificial Intelligence, 2021, 4, 694875.	3.4	19
334	COVID-19 Diagnosis Using an Enhanced Inception-ResNetV2 Deep Learning Model in CXR Images. Journal of Healthcare Engineering, 2021, 2021, 1-16.	1.9	18
335	An Overview of Deep Learning Techniques on Chest X-Ray and CT Scan Identification of COVID-19. Computational and Mathematical Methods in Medicine, 2021, 2021, 1-17.	1.3	31
336	COVID-19 pulmonary consolidations detection in chest X-ray using progressive resizing and transfer learning techniques. Heliyon, 2021, 7, e07211.	3.2	18
337	Comprehensive Survey of Using Machine Learning in the COVID-19 Pandemic. Diagnostics, 2021, 11, 1155.	2.6	40

#	ARTICLE	IF	CITATIONS
338	Deep convolutional neural networks for ‹scp›COVID‑19‹/scp› automatic diagnosis. Microscopy Research and Technique, 2021, 84, 2504-2516.	2.2	19
339	Detecting COVID-19 in chest images based on deep transfer learning and machine learning algorithms. Egyptian Journal of Radiology and Nuclear Medicine, 2021, 52, .	0.6	19
340	Classification and Comparison of Covid-19 Patients. , 2021, , .		1
341	On COVID-19 Prediction Using Asynchronous Federated Learning-Based Agile Radiograph Screening Booths. , 2021, , .		13
342	Detection of Covid-19 from Chest CT Images using Xception Architecture: A Deep Transfer Learning based Approach. Sakarya University Journal of Science, 2021, 25, 800-810.	0.7	9
343	A structured literature review on the interplay between emerging technologies and COVID-19 â€" insights and directions to operations fields. Annals of Operations Research, 2021, , 1-27.	4.1	36
344	Novel deep neural network technique for detecting environmental effect of COVID-19. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 0, , 1-19.	2.3	6
345	Covidense: Providing a Suitable Solution for Diagnosing Covid-19 Lung Infection Based on Deep Learning from Chest X-Ray Images of Patients. Frontiers in Biomedical Technologies, 0, , .	0.0	2
346	Diagnosis of Ear Conditions Using Deep Learning Approach. , 2021, , .		3
347	A vital sign-based prediction algorithm for differentiating COVID-19 versus seasonal influenza in hospitalized patients. Npj Digital Medicine, 2021, 4, 95.	10.9	20
348	CovidXrayNet: Optimizing data augmentation and CNN hyperparameters for improved COVID-19 detection from CXR. Computers in Biology and Medicine, 2021, 133, 104375.	7.0	77
349	Gray level co-occurrence matrix and extreme learning machine for Covid-19 diagnosis. International Journal of Cognitive Computing in Engineering, 2021, 2, 93-103.	8.2	18
350	Computer-Aided-Diagnosis as a Service on Decentralized Medical Cloud for Efficient and Rapid Emergency Response Intelligence. New Generation Computing, 2021, 39, 677-700.	3.3	9
351	A Deep Learning-based System for Detecting COVID-19 Patients. , 2021, , .		3
352	Automated Detection of Covid-19 from Chest X-ray scans using an optimized CNN architecture. Applied Soft Computing Journal, 2021, 104, 107238.	7.2	44
353	Covid-19 Imaging Tools: How Big Data is Big?. Journal of Medical Systems, 2021, 45, 71.	3.6	55
354	DenseCapsNet: Detection of COVID-19 from X-ray images using a capsule neural network. Computers in Biology and Medicine, 2021, 133, 104399.	7.0	39
355	Evaluating the Clinical Realism of Synthetic Chest X-Rays Generated Using Progressively Growing GANs. SN Computer Science, 2021, 2, 321.	3.6	14

#	ARTICLE	IF	CITATIONS
356	Imaging Cardiovascular Inflammation in the COVID-19 Era. Diagnostics, 2021, 11, 1114.	2.6	8
357	Evaluation of deep learning for COVID‚Äê19 diagnosis: Impact of image dataset organization. Journal of Applied Clinical Medical Physics, 2021, 22, 297-305.	1.9	3
358	CO-ResNet: Optimized ResNet model for COVID-19 diagnosis from X-ray images. International Journal of Hybrid Intelligent Systems, 2021, 17, 71-85.	1.2	29
359	DenseNet Convolutional Neural Networks Application for Predicting COVID-19 Using CT Image. SN Computer Science, 2021, 2, 389.	3.6	63
360	Perspectives and Attitudes of Patients with COVID-19 toward a Telerehabilitation Programme: A Qualitative Study. International Journal of Environmental Research and Public Health, 2021, 18, 7845.	2.6	10
361	A comparative study of multiple neural network for detection of COVID-19 on chest X-ray. Eurasip Journal on Advances in Signal Processing, 2021, 2021, 50.	1.7	37
362	Platforms of IoT for Detection and Diagnosis covid_19 :. Journal of Physics: Conference Series, 2021, 1963, 012048.	0.4	0
363	AI for COVID-19 Detection from Radiographs: Incisive Analysis of State of the Art Techniques, Key Challenges and Future Directions. Irbm, 2022, 43, 486-510.	5.6	13
364	A novel DeepNet model for the efficient detection of COVID-19 for symptomatic patients. Biomedical Signal Processing and Control, 2021, 68, 102812.	5.7	12
365	Automatic diagnosis of coronavirus (COVID-19) using shape and texture characteristics extracted from X-Ray and CT-Scan images. Biomedical Signal Processing and Control, 2021, 68, 102602.	5.7	12
366	COVID-19 Diagnosis from Chest CT Scans: A Weakly Supervised CNN-LSTM Approach. AI, 2021, 2, 330-341.	3.8	10
367	Depth-wise dense neural network for automatic COVID19 infection detection and diagnosis. Annals of Operations Research, 2021, , 1-21.	4.1	24
368	VGGCovidNet: A Deep Convolutional Neural Network to Predict COVID-19 Cases from X-Ray Images. , 2021, , .		1
369	Screening of Viral Pneumonia and COVID-19 in Chest X-ray using Classical Machine Learning. , 2021, , .		2
370	Deep Learning for Automated Detection and Identification of Migrating American Eel Anguilla rostrata from Imaging Sonar Data. Remote Sensing, 2021, 13, 2671.	4.0	16
372	Fusion of AI techniques to tackle COVID-19 pandemic: models, incidence rates, and future trends. Multimedia Systems, 2022, 28, 1189-1222.	4.7	10
373	Rapidly deploying a COVID-19 decision support system in one of the largest Brazilian hospitals. Health Informatics Journal, 2021, 27, 146045822110330.	2.1	2
374	Federated learning for COVID-19 screening from Chest X-ray images. Applied Soft Computing Journal, 2021, 106, 107330.	7.2	133

#	Article	IF	Citations
375	Deep learning applied to automatic disease detection using chest Xâ€rays. Journal of Medical Imaging and Radiation Oncology, 2021, 65, 498-517.	1.8	23
376	Outbreak prediction of COVID-19 using Recurrent neural network with Gated Recurrent Units. Materials Today: Proceedings, 2023, 80, 3433-3437.	1.8	3
377	Digital imaging, technologies and artificial intelligence applications during COVID-19 pandemic. Computerized Medical Imaging and Graphics, 2021, 91, 101933.	5.8	40
378	Deep learning based detection of COVID-19 from chest X-ray images. Multimedia Tools and Applications, 2021, 80, 31803-31820.	3.9	38
379	The Applications of Artificial Intelligence in Chest Imaging of COVID-19 Patients: A Literature Review. Diagnostics, 2021, 11, 1317.	2.6	18
380	Detection of COVID-19 and Other Pneumonia Cases Using Convolutional Neural Networks and X-ray Images. Ingenieria E Investigacion, 2022, 42, e90289.	0.4	1
381	FractalCovNet architecture for COVID-19 Chest X-ray image Classification and CT-scan image Segmentation. Biocybernetics and Biomedical Engineering, 2021, 41, 1025-1038.	5.9	40
382	COVID-19 Diagnosis with Deep Learning. Ingenieria E Investigacion, 2022, 42, e88825.	0.4	2
383	Exploring the Research Trends in COVID-19 in Collaboration with Industry 4.0 Technology as an Indispensable Effective Tool to promote Global Health through Bibliometric Analysis. Journal of Physics: Conference Series, 2021, 1964, 042001.	0.4	0
384	Comparative Study and Detection of COVID-19 and Related Viral Pneumonia Using Fine-Tuned Deep Transfer Learning. Intelligent Systems Reference Library, 2022, , 19-50.	1.2	3
385	Detection of COVID-19 from Chest X-ray and CT Scan Images using Improved Stacked Sparse Autoencoder. Pertanika Journal of Science and Technology, 2021, 29, .	0.6	1
386	Deep Learning for COVID-19. Studies in Computational Intelligence, 2022, , 531-569.	0.9	1
387	Review on <scp>COVID</scp>â€19 diagnosis models based on machine learning and deep learning approaches. Expert Systems, 2022, 39, e12759.	4.5	105
388	A novel and efficient deep learning approach for <scp>COVID</scp>â€19 detection using Xâ€ray imaging modality. International Journal of Imaging Systems and Technology, 2021, 31, 1775-1791.	4.1	26
389	Detection of Novel Coronavirus from Chest X-Ray Radiograph Images via Automated Machine Learning and CAD4COVID. , 2021, , .		3
390	COVID-19 Automatic Diagnosis With Radiographic Imaging: Explainable Attention Transfer Deep Neural Networks. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 2376-2387.	6.3	48
391	A hybrid computational framework for intelligent inter-continent SARS-CoV-2 sub-strains characterization and prediction. Scientific Reports, 2021, 11, 14558.	3.3	3
392	AI-Empowered Computational Examination of Chest Imaging for COVID-19 Treatment: A Review. Frontiers in Artificial Intelligence, 2021, 4, 612914.	3.4	6

#	Article	IF	Citations
394	COVID-19 Diagnosis from Chest X-ray Images Using Convolutional Neural Network(CNN) and InceptionV3. , 2021, , .		15
395	Diagnosing Covid-19 chest x-rays with a lightweight truncated DenseNet with partial layer freezing and feature fusion. Biomedical Signal Processing and Control, 2021, 68, 102583.	5.7	31
396	Automatic COVID-19 Detection Using Exemplar Hybrid Deep Features with X-ray Images. International Journal of Environmental Research and Public Health, 2021, 18, 8052.	2.6	28
397	A new approach for computer-aided detection of coronavirus (COVID-19) from CT and X-ray images using machine learning methods. Applied Soft Computing Journal, 2021, 105, 107323.	7.2	87
398	Framework for Real-Time Detection and Identification of possible patients of COVID-19 at public places. Biomedical Signal Processing and Control, 2021, 68, 102605.	5.7	8
399	LBP-based information assisted intelligent system for COVID-19 identification. Computers in Biology and Medicine, 2021, 134, 104453.	7.0	14
400	Multi-stage transfer learning for lung segmentation using portable X-ray devices for patients with COVID-19. Expert Systems With Applications, 2021, 173, 114677.	7.6	44
401	Application of Deep Learning Techniques for COVID-19 Management. Studies in Computational Intelligence, 2022, , 165-197.	0.9	0
402	Applying deep learning-based multi-modal for detection of coronavirus. Multimedia Systems, 2022, 28, 1251-1262.	4.7	17
403	Diagnosis of COVID-19 Using Machine Learning and Deep Learning: A Review. Current Medical Imaging, 2021, 17, 1403-1418.	0.8	28
404	A systematic review on AI/ML approaches against COVID-19 outbreak. Complex & Intelligent Systems, 2021, 7, 2655-2678.	6.5	48
405	Automatic COVID-19 pneumonia diagnosis from x-ray lung image: A Deep Feature and Machine Learning Solution. Journal of Physics: Conference Series, 2021, 1963, 012099.	0.4	8
406	Fusion of convolution neural network, support vector machine and Sobel filter for accurate detection of COVID-19 patients using X-ray images. Biomedical Signal Processing and Control, 2021, 68, 102622.	5.7	117
407	Applying deep learning in digital breast tomosynthesis for automatic breast cancer detection: A review. Medical Image Analysis, 2021, 71, 102049.	11.6	78
408	Implementation of Machine Learning Techniques for the Classification of Lung X-Ray Images Used to Detect COVID-19 in Humans. Iraqi Journal of Science, 0, , 2099-2109.	0.3	19
409	Hybrid encodings for neuroevolution of convolutional neural networks. , 2021, , .		4
410	FBSED based automatic diagnosis of COVID-19 using X-ray and CT images. Computers in Biology and Medicine, 2021, 134, 104454.	7.0	55
411	Computational Intelligence, Machine Learning and Deep Learning Techniques for Effective Future Predictions of COVID-19: A Review. Studies in Computational Intelligence, 2022, , 379-402.	0.9	1

#	ARTICLE	IF	CITATIONS
412	Crispr biosensing and Ai driven tools for detection and prediction of Covid-19. Journal of Experimental and Theoretical Artificial Intelligence, 2023, 35, 489-505.	2.8	4
413	Impartially Validated Multiple Deep-Chain Models to Detect COVID-19 in Chest X-ray Using Latent Space Radiomics. Journal of Clinical Medicine, 2021, 10, 3100.	2.4	6
414	Real-Time Diagnosis System of COVID-19 Using X-Ray Images and Deep Learning. IT Professional, 2021, 23, 57-62.	1.5	29
415	Classification of COVID-19 chest X-Ray and CT images using a type of dynamic CNN modification method. Computers in Biology and Medicine, 2021, 134, 104425.	7.0	79
416	Emerging technologies and their roles during the COVID-19 pandemic and safety challenges of frontline medical staff: a rapid review. Research on Biomedical Engineering, 0, , 1.	2.2	2
417	Current state of diagnostic, screening and surveillance testing methods for COVID-19 from an analytical chemistry point of view. Microchemical Journal, 2021, 167, 106305.	4.5	37
418	An Automated Lightweight Deep Neural Network for Diagnosis of COVID-19 from Chest X-ray Images. Arabian Journal for Science and Engineering, 2023, 48, 11085-11102.	3.0	12
419	Modeling a deep transfer learning framework for the classification of COVID-19 radiology dataset. PeerJ Computer Science, 2021, 7, e614.	4.5	9
420	Detecting COVID 19 using Deep Learning. International Journal for Research in Applied Science and Engineering Technology, 2021, 9, 1234-1241.	0.1	0
421	SARS-CoV-2 diagnosis using medical imaging techniques and artificial intelligence: A review. Clinical Imaging, 2021, 76, 6-14.	1.5	26
422	X-Ray Equipped with Artificial Intelligence: Changing the COVID-19 Diagnostic Paradigm during the Pandemic. BioMed Research International, 2021, 2021, 1-16.	1.9	25
423	COVID-19 diagnosis using model agnostic meta-learning on limited chest X-ray images. , 2021, , .		6
424	Deep learning model for automated kidney stone detection using coronal CT images. Computers in Biology and Medicine, 2021, 135, 104569.	7.0	59
425	Machine Learning Model Applied on Chest X-Ray Images Enables Automatic Detection of COVID-19 Cases with High Accuracy. International Journal of General Medicine, 2021, Volume 14, 4923-4931.	1.8	15
426	Deep Learning in Precision Medicine. Lecture Notes in Networks and Systems, 2022, , 223-232.	0.7	0
427	Chest radiograph-based artificial intelligence predictive model for mortality in community-acquired pneumonia. BMJ Open Respiratory Research, 2021, 8, e001045.	3.0	8
428	Classification of Lung Disease in Children by Using Lung Ultrasound Images and Deep Convolutional Neural Network. Frontiers in Physiology, 2021, 12, 693448.	2.8	4
429	Automated detection of Covid-19 disease using deep fused features from chest radiography images. Biomedical Signal Processing and Control, 2021, 69, 102862.	5.7	14

#	Article	IF	Citations
430	The Effect of Discrete Cosine Transform on COVID-19 Differentiation from Chest X-Ray Images: A Preliminary Study. , 2021, , .		2
431	Medical Image Classification for Coronavirus Disease (COVID-19) Using Convolutional Neural Networks. Iraqi Journal of Science, 0, , 2740-2747.	0.3	4
432	COVID-19 Detection Using CNN and Decision Tree. Advances in Intelligent Systems and Computing, 2022, , 535-545.	0.6	0
433	Automated detection of COVID-19 from X-ray images using CNN and Android mobile. Research on Biomedical Engineering, 2021, 37, 545-552.	2.2	18
434	Oil Well Detection via Large-Scale and High-Resolution Remote Sensing Images Based on Improved YOLO v4. Remote Sensing, 2021, 13, 3243.	4.0	15
435	Residual-Shuffle Network with Spatial Pyramid Pooling Module for COVID-19 Screening. Diagnostics, 2021, 11, 1497.	2.6	3
436	Quantum Machine Learning Architecture for COVID-19 Classification Based on Synthetic Data Generation Using Conditional Adversarial Neural Network. Cognitive Computation, 2022, 14, 1677-1688.	5.2	52
437	Transfer Learning for the Detection and Diagnosis of Types of Pneumonia including Pneumonia Induced by COVID-19 from Chest X-ray Images. Diagnostics, 2021, 11, 1480.	2.6	11
438	A morphology-based radiological image segmentation approach for efficient screening of COVID-19. Biomedical Signal Processing and Control, 2021, 69, 102800.	5.7	18
439	Medical imaging and computational image analysis in COVID-19 diagnosis: A review. Computers in Biology and Medicine, 2021, 135, 104605.	7.0	26
440	Radiologist-Level Two Novel and Robust Automated Computer-Aided Prediction Models for Early Detection of COVID-19 Infection from Chest X-ray Images. Arabian Journal for Science and Engineering, 2023, 48, 11051-11083.	3.0	12
441	Validating deep learning inference during chest X-ray classification for COVID-19 screening. Scientific Reports, 2021, 11, 16075.	3.3	32
442	ANFIS-Net for automatic detection of COVID-19. Scientific Reports, 2021, 11, 17318.	3.3	14
443	Detection of Covid 19 from the Lungs X-ray Images by Using the Deep Learning Techniques. , 0, , .		0
444	Neural Style Transfer as Data Augmentation for Improving COVID-19 Diagnosis Classification. SN Computer Science, 2021, 2, 410.	3.6	5
445	COVID-19 Data Analysis using Chest X-ray. International Journal of Advanced Medical Sciences and Technology, 2021, 1, 5-10.	0.2	0
447	Classification of COVID-19 and pleural effusion on chest radiographs using CNN fusion. , 2021, , .		1
448	Diagnostic Accuracy of Sagittal TSE-T2W, Variable Flip Angle 3D TSET2W and High-resolution 3D Heavily T2W Sequences for the Stenosis of Two Localizations: The Cerebral Aqueduct and the Superior Medullary Velum. Current Medical Imaging, 2021, 17, 1432-1438.	0.8	2

#	ARTICLE	IF	CITATIONS
449	A stacked ensemble for the detection of COVID-19 with high recall and accuracy. Computers in Biology and Medicine, 2021, 135, 104608.	7.0	22
450	X-ray and CT-scan-based automated detection and classification of covid-19 using convolutional neural networks (CNN). Biomedical Signal Processing and Control, 2021, 69, 102920.	5.7	73
451	Deep insight: Convolutional neural network and its applications for COVID-19 prognosis. Biomedical Signal Processing and Control, 2021, 69, 102814.	5.7	21
452	Detection of COVID-19 Using Transfer Learning and Grad-CAM Visualization on Indigenously Collected X-ray Dataset. Sensors, 2021, 21, 5813.	3.8	29
453	A Novel Weighted Consensus Machine Learning Model for COVID-19 Infection Classification Using CT Scan Images. Arabian Journal for Science and Engineering, 2023, 48, 11039-11050.	3.0	12
454	COVID-CGAN: Efficient Deep Learning Approach for COVID-19 Detection Based on CXR Images Using Conditional GANs. Applied Sciences (Switzerland), 2021, 11, 7174.	2.5	17
455	A bagging dynamic deep learning network for diagnosing COVID-19. Scientific Reports, 2021, 11, 16280.	3.3	13
456	Hybrid Deep-Learning and Machine-Learning Models for Predicting COVID-19. Computational Intelligence and Neuroscience, 2021, 2021, 1-11.	1.7	24
457	Lumbar Disc Herniation Automatic Detection in Magnetic Resonance Imaging Based on Deep Learning. Frontiers in Bioengineering and Biotechnology, 2021, 9, 708137.	4.1	25
459	A Deep Learning Model with Self-Supervised Learning and Attention Mechanism for COVID-19 Diagnosis Using Chest X-ray Images. Electronics (Switzerland), 2021, 10, 1996.	3.1	10
460	Classification of Chest X-Ray Images using Wavelet and MFCC Features and Support Vector Machine Classifier. Engineering, Technology & Applied Science Research, 2021, 11, 7296-7301.	1.9	7
461	COVID-19: Automatic detection from X-ray images by utilizing deep learning methods. Expert Systems With Applications, 2021, 176, 114883.	7.6	64
462	A new COVID-19 detection method from human genome sequences using CpG island features and KNN classifier. Engineering Science and Technology, an International Journal, 2021, 24, 839-847.	3.2	38
463	Segmentation of Older Adults in the Acceptance of Social Networking Sites Using Machine Learning. Frontiers in Psychology, 2021, 12, 705715.	2.1	3
464	Detection of Pediatric Pneumonia from X-Ray Images using ResNet50 and GAL Networks. , 2021, , .		3
466	A Pre-study on the Layer Number Effect of Convolutional Neural Networks in Brain Tumor Classification. , 2021, , .		2
467	Automated image classification of chest X-rays of COVID-19 using deep transfer learning. Results in Physics, 2021, 28, 104529.	4.1	20
468	A Fine-tuned deep convolutional neural network for chest radiography image classification on COVID-19 cases. Multimedia Tools and Applications, 2022, 81, 1055-1075.	3.9	12

#	Article	IF	Citations
469	Diagnosis of COVID-19 Using a Deep Learning Model in Various Radiology Domains. Complexity, 2021, 2021, 1-10.	1.6	4
470	IoT-to-the-Rescue: A Survey of IoT Solutions for COVID-19-Like Pandemics. IEEE Internet of Things Journal, 2021, 8, 13145-13164.	8.7	41
471	Health Risk Detection and Classification Model Using Multi-Model-Based Image Channel Expansion and Visual Pattern Standardization. Applied Sciences (Switzerland), 2021, 11, 8621.	2.5	1
472	Review of Recent Technologies for Tackling COVID-19. SN Computer Science, 2021, 2, 460.	3.6	3
473	Do you have COVID-19? An artificial intelligence-based screening tool for COVID-19 using acoustic parameters. Journal of the Acoustical Society of America, 2021, 150, 1945-1953.	1.1	9
474	Application of Machine Learning for SARS-CoV-2 Outbreak. International Journal of Scientific Research in Science, Engineering and Technology, 2021, , 241-248.	0.1	0
475	Role of standard and soft tissue chest radiography images in deep-learning-based early diagnosis of COVID-19. Journal of Medical Imaging, 2021, 8, 014503.	1.5	10
476	Hyperparameters optimization for ResNet and Xception in the purpose of diagnosing COVID-19. Journal of Intelligent and Fuzzy Systems, 2021, 41, 3555-3571.	1.4	11
477	The importance of being external. methodological insights for the external validation of machine learning models in medicine. Computer Methods and Programs in Biomedicine, 2021, 208, 106288.	4.7	72
478	A multi-scale gated multi-head attention depthwise separable CNN model for recognizing COVID-19. Scientific Reports, 2021, 11, 18048.	3.3	13
479	EDL-COVID: Ensemble Deep Learning for COVID-19 Case Detection From Chest X-Ray Images. IEEE Transactions on Industrial Informatics, 2021, 17, 6539-6549.	11.3	115
480	COVID-19 discrimination framework for X-ray images by considering radiomics, selective information, feature ranking, and a novel hybrid classifier. Signal Processing: Image Communication, 2021, 97, 116359.	3.2	9
481	The potential and challenges of Health 4.0 to face COVID-19 pandemic: a rapid review. Health and Technology, 2021, 11, 1321-1330.	3.6	11
482	Extracting low dimensional representations from large size whole slide images using deep convolutional autoencoders. Expert Systems, 0, , e12819.	4.5	1
483	Real-Time Implementation of AI-Based Face Mask Detection and Social Distancing Measuring System for COVID-19 Prevention. Scientific Programming, 2021, 2021, 1-21.	0.7	38
484	Diagnosis/Prognosis of COVID-19 Chest Images via Machine Learning and Hypersignal Processing: Challenges, opportunities, and applications. IEEE Signal Processing Magazine, 2021, 38, 37-66.	5.6	15
485	CASE-CF: Context Aware Smart Epidemic Control Framework. New Generation Computing, 2021, 39, 1-28.	3.3	1
486	Deep learning and lung ultrasound for Covid-19 pneumonia detection and severity classification. Computers in Biology and Medicine, 2021, 136, 104742.	7.0	43

#	ARTICLE	IF	CITATIONS
487	Augmented Multicenter Graph Convolutional Network for COVID-19 Diagnosis. IEEE Transactions on Industrial Informatics, 2021, 17, 6499-6509.	11.3	15
488	A deep learning based approach for automatic detection of COVID-19 cases using chest X-ray images. Biomedical Signal Processing and Control, 2022, 71, 103182.	5.7	109
489	Novel COVID-19 Recognition Framework Based on Conic Functions Classifier. EAI/Springer Innovations in Communication and Computing, 2022, , 1-10.	1.1	1
490	A Real-Time Approach with Deep Learning for Pandemic Management. EAI/Springer Innovations in Communication and Computing, 2022, , 113-139.	1.1	2
491	Artificial Intelligence for COVID-19: A Systematic Review. Frontiers in Medicine, 2021, 8, 704256.	2.6	67
492	Detection of novel coronavirus from chest X-rays using deep convolutional neural networks. Multimedia Tools and Applications, 2022, 81, 22263-22288.	3.9	9
493	Intelligent Intraoperative Haptic-AR Navigation for COVID-19 Lung Biopsy Using Deep Hybrid Model. IEEE Transactions on Industrial Informatics, 2021, 17, 6519-6527.	11.3	11
494	White matter structural connectivity as a biomarker for detecting juvenile myoclonic epilepsy by transferred deep convolutional neural networks with varying transfer rates. Journal of Neural Engineering, 2021, 18, 056053.	3.5	4
495	Object or Background: An Interpretable Deep Learning Model for COVID-19 Detection from CT-Scan Images. Diagnostics, 2021, 11, 1732.	2.6	13
496	NAGNN: Classification of COVIDâ€19 based on neighboring aware representation from deep graph neural network. International Journal of Intelligent Systems, 2022, 37, 1572-1598.	5.7	107
497	Classification of COVID-19 in X-ray images with Genetic Fine-tuning. Computers and Electrical Engineering, 2021, 96, 107467.	4.8	7
498	A novel deep learning based method for COVID-19 detection from CT image. Biomedical Signal Processing and Control, 2021, 70, 102987.	5.7	27
499	Application of machine learning in CT images and X-rays of COVID-19 pneumonia. Medicine (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.0	32
500	A smart healthcare framework for detection and monitoring of COVID-19 using IoT and cloud computing. Neural Computing and Applications, 2023, 35, 13775-13789.	5.6	27
501	COVID-19: A Comprehensive Review of Learning Models. Archives of Computational Methods in Engineering, 2022, 29, 1915-1940.	10.2	12
502	KL-MOB: automated COVID-19 recognition using a novel approach based on image enhancement and a modified MobileNet CNN. PeerJ Computer Science, 2021, 7, e694.	4.5	1
503	Randomly initialized convolutional neural network for the recognition of <scp>COVID</scp>â€19 using Xâ€ray images. International Journal of Imaging Systems and Technology, 2022, 32, 55-73.	4.1	37
504	Predicting Mechanical Ventilation and Mortality in COVID-19 Using Radiomics and Deep Learning on Chest Radiographs: A Multi-Institutional Study. Diagnostics, 2021, 11, 1812.	2.6	26

#	ARTICLE	IF	CITATIONS
505	Artificial Intelligence and COVID-19 Using Chest CT Scan and Chest X-ray Images: Machine Learning and Deep Learning Approaches for Diagnosis and Treatment. Journal of Personalized Medicine, 2021, 11, 993.	2.5	58
506	An approach to the classification of COVID-19 based on CT scans using convolutional features and genetic algorithms. Computers in Biology and Medicine, 2021, 136, 104744.	7.0	42
507	Coronavirus disease (COVID-19) detection using X-ray images and enhanced DenseNet. Applied Soft Computing Journal, 2021, 110, 107645.	7.2	44
508	Automatic detection of COVID-19 using pruned GLCM-Based texture features and LDCRF classification. Computers in Biology and Medicine, 2021, 137, 104781.	7.0	26
509	Disease type detection in lung and colon cancer images using the complement approach of inefficient sets. Computers in Biology and Medicine, 2021, 137, 104827.	7.0	47
510	Stochastic weight pruning and the role of regularization in shaping network structure. Neurocomputing, 2021, 462, 555-567.	5.9	3
511	Covid-19 detection via deep neural network and occlusion sensitivity maps. AEJ - Alexandria Engineering Journal, 2021, 60, 4829-4855.	6.4	32
512	Checklist for responsible deep learning modeling of medical images basedÂon COVID-19 detection studies. Pattern Recognition, 2021, 118, 108035.	8.1	33
513	COVID-19 detection from lung CT-Scans using a fuzzy integral-based CNN ensemble. Computers in Biology and Medicine, 2021, 138, 104895.	7.0	35
514	An integrated framework with machine learning and radiomics for accurate and rapid early diagnosis of COVID-19 from Chest X-ray. Expert Systems With Applications, 2021, 180, 115152.	7.6	20
515	An optimized KELM approach for the diagnosis of COVID-19 from 2D-SSA reconstructed CXR Images. Optik, 2021, 244, 167572.	2.9	3
516	Determination of COVID-19 pneumonia based on generalized convolutional neural network model from chest X-ray images. Expert Systems With Applications, 2021, 180, 115141.	7.6	60
517	ULNet for the detection of coronavirus (COVID-19) from chest X-ray images. Computers in Biology and Medicine, 2021, 137, 104834.	7.0	13
518	Accurate detection of COVID-19 using deep features based on X-Ray images and feature selection methods. Computers in Biology and Medicine, 2021, 137, 104771.	7.0	24
519	Tracking of individual TRISO-fueled pebbles through the application of X-ray imaging with deep metric learning. Progress in Nuclear Energy, 2021, 140, 103913.	2.9	3
520	Fusion of intelligent learning for COVID-19: A state-of-the-art review and analysis on real medical data. Neurocomputing, 2021, 457, 40-66.	5.9	15
521	COVID-19 detection in chest X-ray images using deep boosted hybrid learning. Computers in Biology and Medicine, 2021, 137, 104816.	7.0	52
522	Detecting pulmonary diseases using deep features in X-ray images. Pattern Recognition, 2021, 119, 108081.	8.1	25

#	Article	IF	Citations
523	A preliminary analysis of AI based smartphone application for diagnosis of COVID-19 using chest X-ray images. Expert Systems With Applications, 2021, 183, 115401.	7.6	40
524	Automatic method for classifying COVID-19 patients based on chest X-ray images, using deep features and PSO-optimized XGBoost. Expert Systems With Applications, 2021, 183, 115452.	7.6	29
525	Ambiguous D-means fusion clustering algorithm based on ambiguous set theory: Special application in clustering of CT scan images of COVID-19. Knowledge-Based Systems, 2021, 231, 107432.	7.1	31
526	Accurate detection of COVID-19 patients based on distance biased Naïve Bayes (DBNB) classification strategy. Pattern Recognition, 2021, 119, 108110.	8.1	34
527	A new composite approach for COVID-19 detection in X-ray images using deep features. Applied Soft Computing Journal, 2021, 111, 107669.	7.2	14
528	An oppositional-Cauchy based GSK evolutionary algorithm with a novel deep ensemble reinforcement learning strategy for COVID-19 diagnosis. Applied Soft Computing Journal, 2021, 111, 107675.	7.2	36
529	COVID-19 Detection from X-ray Images using Multi-Kernel-Size Spatial-Channel Attention Network. Pattern Recognition, 2021, 119, 108055.	8.1	24
530	Data augmentation approaches using cycle-consistent adversarial networks for improving COVID-19 screening in portable chest X-ray images. Expert Systems With Applications, 2021, 185, 115681.	7.6	32
531	Applications of artificial intelligence in COVID-19 pandemic: A comprehensive review. Expert Systems With Applications, 2021, 185, 115695.	7.6	119
532	Wavelet and deep learning-based detection of SARS-nCoV from thoracic X-ray images for rapid and efficient testing. Expert Systems With Applications, 2021, 185, 115650.	7.6	11
533	CovH2SD: A COVID-19 detection approach based on Harris Hawks Optimization and stacked deep learning. Expert Systems With Applications, 2021, 186, 115805.	7.6	41
534	Deep transfer learning for COVID-19 detection and infection localization with superpixel based segmentation. Sustainable Cities and Society, 2021, 75, 103252.	10.4	34
535	Application of deep learning to identify COVID-19 infection in posteroanterior chest X-rays. Clinical Imaging, 2021, 80, 268-273.	1.5	3
536	Progressive global perception and local polishing network for lung infection segmentation of COVID-19 CT images. Pattern Recognition, 2021, 120, 108168.	8.1	51
537	COVID-19 detection in X-ray images using convolutional neural networks. Machine Learning With Applications, 2021, 6, 100138.	4.4	57
538	Viral outbreaks detection and surveillance using wastewater-based epidemiology, viral air sampling, and machine learning techniques: A comprehensive review and outlook. Science of the Total Environment, 2022, 803, 149834.	8.0	48
539	A Monte Carlo Based COVID-19 Detection Framework for Smart Healthcare. Computers, Materials and Continua, 2022, 70, 2365-2380.	1.9	16
540	A multi model ensemble based deep convolution neural network structure for detection of COVID19. Biomedical Signal Processing and Control, 2022, 71, 103126.	5.7	30

#	Article	IF	Citations
541	Prediction Model for Coronavirus Pandemic Using Deep Learning. Computer Systems Science and Engineering, 2022, 40, 947-961.	2.4	21
542	A Deep Learning to Distinguish COVID-19 from Others Pneumonia Cases. Intelligent Automation and Soft Computing, 2022, 31, 677-692.	2.1	5
543	Binary Classification of COVID-19 CT Images Using CNN. International Journal of E-Health and Medical Communications, 2021, 13, 1-13.	1.6	20
544	Pareto optimization of deep networks for COVID-19 diagnosis from chest X-rays. Pattern Recognition, 2022, 121, 108242.	8.1	14
545	Automated Deep Learning of COVID-19 and Pneumonia Detection Using Google AutoML. Intelligent Automation and Soft Computing, 2022, 31, 1143-1156.	2.1	5
546	A Survey on Explainability in Artificial Intelligence. Advances in Wireless Technologies and Telecommunication Book Series, 2022, , 55-75.	0.4	1
547	Detection of COVID-19 findings by the local interpretable model-agnostic explanations method of types-based activations extracted from CNNs. Biomedical Signal Processing and Control, 2022, 71, 103128.	5.7	24
548	OntoRepliCov: an Ontology-Based Approach for Modeling the SARS-CoV-2 Replication Process. Procedia Computer Science, 2021, 192, 487-496.	2.0	4
549	Deep Learning Technology for Tackling COVID-19 Pandemic. Studies in Systems, Decision and Control, 2021, , 135-160.	1.0	1
550	Transfer learning-based convolutional neural network for COVID-19 detection with X-ray images. , 2021, , 451-466.		38
551	Radiographic findings in COVID-19: Comparison between AI and radiologist. Indian Journal of Radiology and Imaging, 2021, 31, S87-S93.	0.8	7
552	Artificial intelligence in preventive and managed healthcare. , 2021, , 675-697.		1
554	Detection of coronavirus disease (COVID-19) from X-ray images using deep convolutional neural networks. Natural and Engineering Sciences, 2021, 6, 60-74.	0.3	7
555	COVID19 Classification Using CT Images via Ensembles of Deep Learning Models. Computers, Materials and Continua, 2021, 69, 319-337.	1.9	20
556	Systematic Review of Artificial Intelligence in Acute Respiratory Distress Syndrome for COVID-19 Lung Patients: A Biomedical Imaging Perspective. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 4128-4139.	6.3	45
558	Classification of Positive COVID-19 CT Scans using Deep Learning. Computers, Materials and Continua, 2021, 66, 2923-2938.	1.9	22
559	Integration of Deep Learning Machine Models with Conventional Diagnostic Tools in Medical Image Analysis for Detection and Diagnosis of Novel Coronavirus (COVID-19). Studies in Systems, Decision and Control, 2021, , 45-58.	1.0	0
560	COVID-19 Detection Using Chest X-Ray Images with a RegNet Structured Deep Learning Model. Communications in Computer and Information Science, 2021, , 358-370.	0.5	10

#	Article	IF	Citations
561	An Efficient Mixture of Deep and Machine Learning Models for COVID-19 and Tuberculosis Detection Using X-Ray Images in Resource Limited Settings. Studies in Systems, Decision and Control, 2021, , 77-100.	1.0	13
563	An Accuracy vs. Complexity Comparison of Deep Learning Architectures for the Detection of COVID-19 Disease. Computation, 2021, 9, 3.	2.0	21
564	Virtual HRDâ€™s Role in Crisis and the Post Covid-19 Professional Lifeworld: Accelerating Skills for Digital Transformation. Advances in Developing Human Resources, 2021, 23, 5-25.	3.9	54
565	COVID-19 Detection Based on Image Regrouping and Resnet-SVM Using Chest X-Ray Images. IEEE Access, 2021, 9, 81902-81912.	4.2	46
567	Diagnosis of COVID-19 Disease Using Convolutional Neural Network Models Based Transfer Learning. Lecture Notes on Data Engineering and Communications Technologies, 2021, , 148-159.	0.7	11
568	A Hybrid Method of Covid-19 Patient Detection from Modified CT-Scan/Chest-X-Ray Images Combining Deep Convolutional Neural Network And Two- Dimensional Empirical Mode Decomposition. Computer Methods and Programs in Biomedicine Update, 2021, 1, 100022.	3.7	9
569	An Efficient Method for Covid-19 Detection Using Light Weight Convolutional Neural Network. Computers, Materials and Continua, 2021, 69, 2475-2491.	1.9	12
570	Application of Artificial Intelligence (AI) for the Effective Screening of COVID-19. Algorithms for Intelligent Systems, 2021, , 53-70.	0.6	0
571	Applications of Artificial Intelligence and Molecular Immune Pathogenesis, Ongoing Diagnosis and Treatments for COVID-19. Studies in Systems, Decision and Control, 2021, , 521-549.	1.0	0
572	A Novel Protein Mapping Method for Predicting the Protein Interactions in COVID-19 Disease by Deep Learning. Interdisciplinary Sciences, Computational Life Sciences, 2021, 13, 44-60.	3.6	16
573	A Radiomics Signature to Quantitatively Analyze COVID-19-Infected Pulmonary Lesions. Interdisciplinary Sciences, Computational Life Sciences, 2021, 13, 61-72.	3.6	18
574	Use of Conventional Chest Imaging and Artificial Intelligence in COVID-19 Infection. A Review of the Literature. Open Respiratory Archives, 2021, 3, 100078.	0.1	9
575	An efficient method of detection of COVID-19 using Mask R-CNN on chest X-Ray images. AIMS Biophysics, 2021, 8, 281-290.	0.6	16
576	Feature Based Automated Detection of COVID-19 from Chest X-Ray Images. Studies in Systems, Decision and Control, 2021, , 115-131.	1.0	1
577	Machine and Deep Learning towards COVID-19 Diagnosis and Treatment: Survey, Challenges, and Future Directions. International Journal of Environmental Research and Public Health, 2021, 18, 1117.	2.6	101
578	E-DiCoNet: Extreme learning machine based classifier for diagnosis of COVID-19 using deep convolutional network. Journal of Ambient Intelligence and Humanized Computing, 2021, 12, 8887-8898.	4.9	40
579	A Review on Deep Learning Techniques for the Diagnosis of Novel Coronavirus (COVID-19). IEEE Access, 2021, 9, 30551-30572.	4.2	206
580	Detecting SARS-CoV-2 From Chest X-Ray Using Artificial Intelligence. IEEE Access, 2021, 9, 35501-35513.	4.2	50

#	ARTICLE	IF	CITATIONS
581	Deep Learning Approaches for Detecting COVID-19 From Chest X-Ray Images: A Survey. IEEE Access, 2021, 9, 20235-20254.	4.2	64
582	U-Net and Its Variants for Medical Image Segmentation: A Review of Theory and Applications. IEEE Access, 2021, 9, 82031-82057.	4.2	584
583	Intelligent system for COVID-19 prognosis: a state-of-the-art survey. Applied Intelligence, 2021, 51, 2908-2938.	5.3	83
584	Computational Intelligence in Drug Repurposing for COVID-19. Studies in Computational Intelligence, 2021, , 273-294.	0.9	6
585	Digital Image Analysis Is a Silver Bullet to COVID-19 Pandemic. Studies in Computational Intelligence, 2021, , 397-414.	0.9	1
586	Improving the performance of CNN to predict the likelihood of COVID-19 using chest X-ray images with preprocessing algorithms. International Journal of Medical Informatics, 2020, 144, 104284.	3.3	268
587	COVID faster R–CNN: A novel framework to Diagnose Novel Coronavirus Disease (COVID-19) in X-Ray images. Informatics in Medicine Unlocked, 2020, 20, 100405.	3.4	117
588	Covid-19 detection in chest X-ray through random forest classifier using a hybridization of deep CNN and DWT optimized features. Journal of King Saud University - Computer and Information Sciences, 2022, 34, 3226-3235.	3.9	32
589	Machine learning and image analysis applications in the fight against COVID-19 pandemic: Datasets, research directions, challenges and opportunities. Materials Today: Proceedings, 2020, , .	1.8	16
590	Detection of COVID-19 using Hybrid ResNet and SVM. IOP Conference Series: Materials Science and Engineering, 2020, 993, 012046.	0.6	7
591	A Deep-Learning Diagnostic Support System for the Detection of COVID-19 Using Chest Radiographs. Investigative Radiology, 2021, 56, 348-356.	6.2	26
609	COVID-19: risk prediction through nature inspired algorithm. World Journal of Engineering, 2020, ahead-of-print, .	1.6	4
610	DeepCOVIDExplainer: Explainable COVID-19 Diagnosis from Chest X-ray Images. , 2020, , .		99
611	Transfer learning for decision support in Covid-19 detection from a few images in big data. , 2020, , .		12
612	Deep Greedy Network: A Tool for Medical Diagnosis on Exiguous Dataset of COVID-19. , 2020, , .		2
613	A Robust Technique for Detecting SARS-CoV-2 from X-Ray Image using 2D Convolutional Neural Network and Particle Swarm Optimization. , 2020, , .		3
614	Review Paper for Detection of COVID-19 from Medical Images and/ or Symptoms of Patient using Machine Learning Approaches. , 2020, , .		11
615	A Novel Deep Convolutional Neural Network Model for COVID-19 Disease Detection. , 2020, , .		32

#	ARTICLE	IF	CITATIONS
616	Detection of Covid-19 Patients with Convolutional Neural Network Based Features on Multi-class X-ray Chest Images. , 2020, , .		25
617	Artificial intelligence in pulmonary medicine: computer vision, predictive model and COVID-19. European Respiratory Review, 2020, 29, 200181.	7.1	47
618	An efficient mixture of deep and machine learning models for COVID-19 diagnosis in chest X-ray images. PLoS ONE, 2020, 15, e0242535.	2.5	84
619	Optimised genetic algorithm-extreme learning machine approach for automatic COVID-19 detection. PLoS ONE, 2020, 15, e0242899.	2.5	38
620	Development, evaluation, and validation of machine learning models for COVID-19 detection based on routine blood tests. Clinical Chemistry and Laboratory Medicine, 2021, 59, 421-431.	2.3	109
621	CoronaNeXt Evaluating the Performance of the Laplacian Operator in Diagnosing COVID-19 from Chest X-Rays. International Journal of Engineering Research & Technology, 2020, V9, .	0.2	1
623	COVID-19 Detection from Chest X-Ray Images Using CNNs Models: Further Evidence from Deep Transfer Learning. SSRN Electronic Journal, 0, , .	0.4	9
624	Artificial Intelligence in the Fight Against COVID-19: Scoping Review. Journal of Medical Internet Research, 2020, 22, e20756.	4.3	70
625	Prediction of COVID-19 Severity Using Chest Computed Tomography and Laboratory Measurements: Evaluation Using a Machine Learning Approach. JMIR Medical Informatics, 2020, 8, e21604.	2.6	14
626	Development and External Validation of a Machine Learning Tool to Rule Out COVID-19 Among Adults in the Emergency Department Using Routine Blood Tests: A Large, Multicenter, Real-World Study. Journal of Medical Internet Research, 2020, 22, e24048.	4.3	37
629	Image Pre-processing techniques comparison: COVID-19 detection through Chest X-Rays via Deep Learning. International Journal of Scientific Research in Science and Technology, 2020, , 113-123.	0.1	3
630	Convolutional Neural Networks with Transfer Learning for Recognition of COVID-19: A Comparative Study of Different Approaches. AI, 2020, 1, 586-606.	3.8	20
631	Design and Implementation of a Video/Voice Process System for Recognizing Vehicle Parts Based on Artificial Intelligence. Sensors, 2020, 20, 7339.	3.8	5
633	Analyzing the Impact of Soft Errors in Deep Neural Networks on GPUsfrom Instruction Level. WSEAS Transactions on Systems and Control, 2020, 15, 699-708.	0.8	6
634	A Deep Learning Interpretable Model for Novel Coronavirus Disease (COVID-19) Screening with Chest CT Images. Journal of Biomedical Science and Engineering, 2020, 13, 140-152.	0.4	17
635	Early survey with bibliometric analysis on machine learning approaches in controlling COVID-19 outbreaks. PeerJ Computer Science, 2020, 6, e313.	4.5	24
636	Deep-learning convolutional neural networks with transfer learning accurately classify COVID-19 lung infection on portable chest radiographs. PeerJ, 2020, 8, e10309.	2.0	30
637	Approaches of Data Analytics in Intelligent Medicare Utilizing IoT. Studies in Autonomic, Data-driven and Industrial Computing, 2021, , 65-98.	0.5	0

#	ARTICLE	IF	CITATIONS
638	Intelligent tool for detecting Covid-19 using convolutional neural network based on both CT and x-ray lung images. AIP Conference Proceedings, 2021, , .	0.4	0
639	Impact of computational approaches in the fight against COVID-19: an AI guided review of 17 000 studies. Briefings in Bioinformatics, 2022, 23, .	6.5	20
640	Prediction of Full Load Electrical Power Output of a Base Load Operated Combined Cycle Power Plant Using Machine Learning Methods. SSRN Electronic Journal, 0, , .	0.4	1
641	AANet: Adaptive Attention Network for COVID-19 Detection From Chest X-Ray Images. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 4781-4792.	11.3	39
642	Interpretable COVID-19 Classification Leveraging Ensemble Neural Network and XAI. Lecture Notes in Computer Science, 2021, , 380-391.	1.3	4
643	Security Challenges in Internet of Things and Artificial Intelligence in Healthcare Applications. SSRN Electronic Journal, 0, , .	0.4	1
644	Management of Covid-19 Detection Using Artificial Intelligence in 2020 Pandemic. , 2021, , .		21
645	COVID-19 detection method based on SVRNet and SVDNet in lung x-rays. Journal of Medical Imaging, 2021, 8, 017504.	1.5	3
646	Detection of COVID-19 from chest x-ray images using transfer learning. Journal of Medical Imaging, 2021, 8, 017503.	1.5	18
647	An Ensemble Learning Framework For Multi-Class Covid-19 Lesion Segmentation From Chest Ct Images. , 2021, , .		5
648	COVID-19 Lung Radiography Segmentation by Means of Multiphase Transfer Learning. Engineering Proceedings, 2021, 7, .	0.4	0
649	Detection of COVID-19 and its severity using chest X-rays and electronic health records. , 2021, , .		0
650	Detection and analysis of COVID-19 in medical images using deep learning techniques. Scientific Reports, 2021, 11, 19638.	3.3	65
651	<scp>DC–GAN</scp>–based synthetic X–ray images augmentation for increasing the performance of <scp>EfficientNet</scp> for <scp>COVID</scp>–19 detection. Expert Systems, 2022, 39, e12823.	4.5	15
652	Computer-Aided Detection of COVID-19 from CT Images Based on Gaussian Mixture Model and Kernel Support Vector Machines Classifier. Arabian Journal for Science and Engineering, 2022, 47, 2435-2453.	3.0	13
653	Artificial intelligence for COVID-19: battling the pandemic with computational intelligence. Intelligent Medicine, 2022, 2, 13-29.	3.1	18
654	A comprehensive review on efficient approaches for combating coronaviruses. Biomedicine and Pharmacotherapy, 2021, 144, 112353.	5.6	4
656	On the receptive field misalignment in CAM-based visual explanations. Pattern Recognition Letters, 2021, 152, 275-282.	4.2	5

#	ARTICLE	IF	CITATIONS
657	DenResCov-19: A deep transfer learning network for robust automatic classification of COVID-19, pneumonia, and tuberculosis from X-rays. Computerized Medical Imaging and Graphics, 2021, 94, 102008.	5.8	50
658	Recurrent Neural Network and Reinforcement Learning Model for COVID-19 Prediction. Frontiers in Public Health, 2021, 9, 744100.	2.7	38
659	Potential of artificial intelligence to accelerate diagnosis and drug discovery for COVID-19. PeerJ, 2021, 9, e12073.	2.0	5
660	An Encoder–Decoder-Based Method for Segmentation of COVID-19 Lung Infection in CT Images. SN Computer Science, 2022, 3, 13.	3.6	34
662	GACDN: generative adversarial feature completion and diagnosis network for COVID-19. BMC Medical Imaging, 2021, 21, 154.	2.7	3
663	The effect of deep feature concatenation in the classification problem: An approach on <scp>COVID</scp>â€19 disease detection. International Journal of Imaging Systems and Technology, 2022, 32, 26-40.	4.1	16
664	ReCRNet: a deep residual network for crack detection in historical buildings. Arabian Journal of Geosciences, 2021, 14, 1.	1.3	2
665	AI-based diagnosis of COVID-19 patients using X-ray scans with stochastic ensemble of CNNs. Physical and Engineering Sciences in Medicine, 2021, 44, 1257-1271.	2.4	15
666	COVID-19 Detection Using Deep Convolutional Neural Networks and Binary Differential Algorithm-Based Feature Selection from X-Ray Images. Complexity, 2021, 2021, 1-10.	1.6	12
668	AutoCovNet: Unsupervised feature learning using autoencoder and feature merging for detection of COVID-19 from chest X-ray images. Biocybernetics and Biomedical Engineering, 2021, 41, 1685-1701.	5.9	17
669	An Explainable Framework for Diagnosis of COVID-19 Pneumonia via Transfer Learning and Discriminant Correlation Analysis. ACM Transactions on Multimedia Computing, Communications and Applications, 2021, 17, 1-16.	4.3	11
671	Outbreak COVID-19 in Medical Image Processing Using Deep Learning: A State-of-the-Art Review. Archives of Computational Methods in Engineering, 2022, 29, 2351-2382.	10.2	6
672	Makine Ã–ÄŸrenmesi AlgoritmalarÄ±yla AkciÄŸer Tomografi GÃ¶rÃ¼ntÃ¼lerinden COVID-19 Tespiti. European Journal of Science and Technology, 0, , .	0.5	2
673	COVID-19 diagnosis from chest x-rays: developing a simple, fast, and accurate neural network. Health Information Science and Systems, 2021, 9, 36.	5.2	20
674	A large margin piecewise linear classifier with fusion of deep features in the diagnosis of COVID-19. Computers in Biology and Medicine, 2021, 139, 104927.	7.0	3
676	A Review on Use of Data Science for Visualization and Prediction of the COVID-19 Pandemic and Early Diagnosis of COVID-19 Using Machine Learning Models. Studies in Big Data, 2020, , 241-265.	1.1	0
685	CO-IRv2: Optimized InceptionResNetV2 for COVID-19 detection from chest CT images. PLoS ONE, 2021, 16, e0259179.	2.5	31
686	Decision and feature level fusion of deep features extracted from public COVID-19 data-sets. Applied Intelligence, 2022, 52, 8551-8571.	5.3	14

#	Article	IF	Citations
687	COVID-19 Contact Tracing and Detection-Based on Blockchain Technology. Informatics, 2021, 8, 72.	3.9	5
688	COVID-19 infection localization and severity grading from chest X-ray images. Computers in Biology and Medicine, 2021, 139, 105002.	7.0	85
689	A novel approach for detection of coronavirus disease from computed tomography scan images using the pivot distribution count method. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2022, 10, 145-156.	1.9	2
690	COVIDNet: Implementing Parallel Architecture on Sound and Image for High Efficacy. Future Internet, 2021, 13, 269.	3.8	4
691	COVID-19 Case Recognition from Chest CT Images by Deep Learning, Entropy-Controlled Firefly Optimization, and Parallel Feature Fusion. Sensors, 2021, 21, 7286.	3.8	63
692	A Review on Effectiveness of AI and ML Techniques for Classification of COVID-19 Medical Images. Advances in Intelligent Systems and Computing, 2022, , 171-179.	0.6	1
693	Artificial Intelligence Applied to Chest X-Ray Images for the Automatic Detection of COVID-19. A Thoughtful Evaluation Approach. IEEE Access, 2020, 8, 226811-226827.	4.2	70
695	Deep Networks Based Classification of COVID-19 Chest X-Ray Images. , 2020, , .		2
696	Using CNN-XGBoost Deep Networks for COVID-19 Detection in Chest X-ray Images. , 2020, , .		6
697	Mortality Prediction of COVID-19 Pandemic Using Artificial Intelligence. , 2020, , .		2
698	Improving Explainability of Image Classification in Scenarios with Class Overlap: Application to COVID-19 and Pneumonia. , 2020, , .		3
699	Performance Evaluation of Transfer Learning Technique for Automatic Detection of Patients with COVID-19 on X-Ray Images. , 2020, , .		15
700	Ensemble learning‐based COVID‐19 detection by feature boosting in chest X‐ray images. IET Image Processing, 2020, 14, 4059-4066.	2.5	7
701	COVID-19 Diagnosis from Chest X-ray Images Using Deep Learning Approach. , 2020, , .		8
702	COVID-DETECT: A DEEP LEARNING APPROACH FOR CLASSIFICATION OF COVID-19 PNEUMONIA FROM LUNG SEGMENTED CHEST X-RAYS. Biomedical Engineering - Applications, Basis and Communications, 2021, 33, 2150010.	0.6	2
703	Accuracy Improvement in Detection of COVID-19 in Chest Radiography. , 2020, , .		7
704	Predicting COVID-19 pneumonia severity on chest X-ray with convolutional neural network: A retrospective study. Indian Journal of Medical Sciences, 0, 72, 132-140.	0.1	5
705	A Chest X-ray Image Retrieval System for COVID-19 Detection using Deep Transfer Learning and Denoising Auto Encoder. , 2020, , .		7

#	Article	IF	Citations
706	Generating Realistic COVID-19 x-rays with a Mean Teacher + Transfer Learning GAN. , 2020, , .		7
707	COVID-19 detection from chest X-Ray images using ensemble of CNN models. , 2020, , .		5
708	COVID-19: A Necessity for Changes and Innovations. Lecture Notes on Data Engineering and Communications Technologies, 2021, , 99-105.	0.7	2
709	A Wavelet-CNN Feature Fusion Approach for Detecting COVID-19 from Chest Radiographs. , 2020, , .		2
710	Multi Deep Learning to Diagnose COVID-19 in Lung X-Ray Images with Majority Vote Technique. International Journal of Intelligent Engineering and Systems, 2020, 13, 560-568.	0.6	2
711	Automatic Detection of COVID-19 Disease in Chest X-Ray Images using Deep Neural Networks. , 2020, , .		11
712	COVID-19 Detection from Chest X-ray Scans using Machine Learning. , 2020, , .		15
713	Optimize EdilmiÅŸ Ã‡KA ile CovÄ±d-19 SÄ±nÄ±flandÄ±rmasÄ± iÃ§in KaynaÅŸtÄ±rÄ±lmÄ±ÅŸ Derin Ã–zelliklere DayalÄ± SÄ±nÄ±flandÄ±... Ã‡erÃ§evesi. Konya Journal of Engineering Sciences, 0, , 15-27.	0.3	1
714	A Systematic Review on the Use of Artificial Intelligence Techniques in the Diagnosis of COVID-19 from Chest X-Ray Images. Avicenna Journal of Medical Biochemistry, 2020, 8, 120-127.	0.3	0
715	Study on IoT for SARS-CoV-2 with healthcare: present and future perspective. Mathematical Biosciences and Engineering, 2021, 18, 9697-9726.	1.9	13
716	Deep Stacked Ensemble Learning Model for COVID-19 Classification. Computers, Materials and Continua, 2022, 70, 5467-5469.	1.9	3
717	Efficient Deep CNN Model for COVID-19 Classification. Computers, Materials and Continua, 2022, 70, 4373-4391.	1.9	8
718	COFE-Net: An ensemble strategy for Computer-Aided Detection for COVID-19. Measurement: Journal of the International Measurement Confederation, 2022, 187, 110289.	5.0	19
719	Novel architecture with selected feature vector for effective classification of mitotic and non-mitotic cells in breast cancer histology images. Biomedical Signal Processing and Control, 2022, 71, 103212.	5.7	38
720	ENResNet: A novel residual neural network for chest X-ray enhancement based COVID-19 detection. Biomedical Signal Processing and Control, 2022, 72, 103286.	5.7	17
721	A Deep Neural Network for Detecting Coronavirus Disease Using Chest X-Ray Images. International Journal of Healthcare Information Systems and Informatics, 2021, 17, 1-27.	0.9	7
722	Mitigating the Class Overlap Problem in Discriminative Localization: COVID-19 and Pneumonia Case Study. , 2021, , 125-151.		0
723	Self-Supervised Deep Convolutional Neural Network for Chest X-Ray Classification. IEEE Access, 2021, 9, 151972-151982.	4.2	31

#	ARTICLE	IF	CITATIONS
724	Data Driven Modelling of Coronavirus Spread in Spain. Computers, Materials and Continua, 2020, 64, 1343-1357.	1.9	1
725	Pre-processing and Handling Unbalanced Data in CNN for Improving Automated Detection of COVID-19 Cases: Preliminary Results. Communications in Computer and Information Science, 2020, , 129-139.	0.5	0
726	Hyper-parameter optimization of convolutional neural networks for classifying COVID-19 X-ray images. Computer Science and Information Systems, 2022, 19, 327-352.	1.0	3
727	A Survey on COVID-19 Detection from X-ray Images using Deep Learning. , 2021, , .		3
728	A Convolutional Neural Network Model for Detecting COVID-19 from CT Scans. , 2021, , .		0
729	Visualization of COVID Bimodal scan using DNN. , 2021, , .		4
730	Computer-aided diagnosis system for Covid-19 by using deep transfer learning through X-ray images. , 2021, , .		0
731	A Transfer Learning Based Approach for Detecting COVID-19 with Radiography Images. , 2021, , .		3
732	Face Mask Detection and Temperature Scanning for the Covid-19 Surveillance System. , 2021, , .		10
733	Detecting and Tracking Of Multiple Objects in a single frame with YOLO. , 2021, , .		1
734	Polynomial Based Linear Regression Model to Predict COVID-19 Cases. , 2021, , .		1
735	Deep Ensemble Approaches for Classification of COVID-19 in Chest X-Ray Images. , 2021, , .		1
736	Covid19â€Mexicanâ€Patients' Dataset (Covid19MPD) Classification and Prediction Using Feature Importance. Concurrency Computation Practice and Experience, 2021, , e6675.	2.2	6
737	Deep Learning-Based Prediction of nCOVID-19 Disease Using Chest X-ray Images (CXRIs). Advanced Technologies and Societal Change, 2022, , 15-25.	0.9	4
738	A deep learning approach using effective preprocessing techniques to detect COVID-19 from chest CT-scan and X-ray images. Computers in Biology and Medicine, 2021, 139, 105014.	7.0	56
739	Hybrid-based framework for COVID-19 prediction via federated machine learning models. Journal of Supercomputing, 2022, 78, 7078-7105.	3.6	17
740	A novel data augmentation based on Gabor filter and convolutional deep learning for improving the classification of COVID-19 chest X-Ray images. Biomedical Signal Processing and Control, 2022, 72, 103326.	5.7	60
741	Multi-task vision transformer using low-level chest X-ray feature corpus for COVID-19 diagnosis and severity quantification. Medical Image Analysis, 2022, 75, 102299.	11.6	69

#	ARTICLE	IF	CITATIONS
742	AIDCOV: An Interpretable Artificial Intelligence Model for Detection of COVID-19 from Chest Radiography Images. ACM Transactions on Management Information Systems, 2021, 12, 1-20.	2.8	16
746	Artificial Intelligence Technologies â€" Helping the Fight Against COVID-19 (Vol. 24, No. 10, Full Issue). Asia Pacific Biotech News, 2020, 24, .	0.0	0
748	Combining split and federated architectures for efficiency and privacy in deep learning. , 2020, , .		23
749	EXAM. , 2020, , .		13
750	COVID19 Chest X-Ray Classification with Simple Convolutional Neural Network. , 2020, , .		3
751	An Image Segment-based Classification for Chest X-Ray Image. , 2020, , .		2
754	Detection of COVID-19 from Chest X-ray images using Deep learning. , 2021, , .		0
755	X-Ray Covid-19 Detection Based on Scatter Wavelet Transform and Dense Deep Neural Network. Computer Systems Science and Engineering, 2022, 41, 1255-1271.	2.4	4
756	Uncertainty-aware convolutional neural network for COVID-19 X-ray images classification. Computers in Biology and Medicine, 2022, 140, 105047.	7.0	38
757	Smart COVID-3D-SCNN: A Novel Method to Classify X-ray Images of COVID-19. Computer Systems Science and Engineering, 2022, 41, 997-1008.	2.4	10
758	Comparative Analysis of Machine Learning Algorithms Using COVID-19 Chest X-ray Images and Dataset. Lecture Notes in Networks and Systems, 2022, , 502-516.	0.7	0
759	Prediction of Covid-19 Cases in India Through Machine Learning Using Python. , 2021, , .		0
760	Covid-19 Detection from Chest X-Ray Images and Hybrid Model Recommendation with Convolutional Neural Networks. Acta Mathematica Spalatensia, 2021, 7, 486-503.	0.3	2
761	Diagnosis of Lung segmentation for Chest X Ray images using XGBoost. , 2021, , .		1
762	Transfer Learning Approach to COVID-19 Prediction from Chest X-Ray Images. , 2021, , .		1
763	A Review: Deep Learning Classification Performance of Normal and COVID-19 Chest X-ray Images. Journal of Physics: Conference Series, 2021, 2071, 012003.	0.4	1
764	Transfer Learning Based Method for Automatic COVID-19 Cases Detection in Chest X-Ray Images. , 2021, , .		4
765	A Deep Dive in Covid-19 Diagnosis using Generic Artificial Intelligence. , 2021, , .		0

#	Article	IF	Citations
766	Web Based COVID Detection System using Deep Learning. Journal of Physics: Conference Series, 2021, 2115, 012038.	0.4	0
767	Chest X-Ray Classification of Lung Diseases Using Deep Learning. , 2021, 1, 12-18.		2
768	Diagnosis from CT scan images in complex biological media using deep learning and wave application: a Hunger Games search-based approach. Waves in Random and Complex Media, 0, , 1-25.	2.7	6
770	Potential diagnosis of COVID-19 from chest X-ray and CT findings using semi-supervised learning. Physical and Engineering Sciences in Medicine, 2022, 45, 31-42.	2.4	6
771	Computer-aided COVID-19 diagnosis and a comparison of deep learners using augmented CXRs. Journal of X-Ray Science and Technology, 2022, 30, 89-109.	1.0	10
772	COVID-19/SARS B-Cell Epitope Prediction. Lecture Notes in Networks and Systems, 2022, , 457-465.	0.7	0
773	Deep Learning Algorithm for COVID-19 Classification Using Chest X-Ray Images. Computational and Mathematical Methods in Medicine, 2021, 2021, 1-10.	1.3	12
774	A deep and handcrafted features†based framework for diagnosis of COVID†19 from chest x†ray images. Concurrency Computation Practice and Experience, 2022, 34, e6725.	2.2	15
775	COVID-19 Detection Using Deep Learning Algorithm on Chest X-ray Images. Biology, 2021, 10, 1174.	2.8	66
776	Deep Learning Models for Predicting COVID-19 Using Chest X-Ray Images. EAI/Springer Innovations in Communication and Computing, 2022, , 127-144.	1.1	6
777	Artificial Intelligence Models and Techniques Applied to COVID-19: A Review. Electronics (Switzerland), 2021, 10, 2901.	3.1	3
778	An Expert System for COVID-19 Infection Tracking in Lungs Using Image Processing and Deep Learning Techniques. BioMed Research International, 2021, 2021, 1-17.	1.9	19
779	Numerical Investigations through ANNs for Solving COVID-19 Model. International Journal of Environmental Research and Public Health, 2021, 18, 12192.	2.6	9
780	COVID-19 Detection Using Radiography Images Based on Transfer Learning with DenseNet. Lecture Notes in Networks and Systems, 2022, , 351-363.	0.7	0
781	Ensemble Deep Learning for the Detection of COVID-19 in Unbalanced Chest X-ray Dataset. Applied Sciences (Switzerland), 2021, 11, 10528.	2.5	9
782	Novel multi-site graph convolutional network with supervision mechanism for COVID-19 diagnosis from X-ray radiographs. Applied Soft Computing Journal, 2022, 114, 108041.	7.2	12
783	An Enhanced Deep Network for Recognizing the Coronavirus Disease Using X-ray Images. IETE Journal of Research, 0, , 1-13.	2.6	0
784	Deteksi Covid-19 pada Citra Sinar-X Dada Menggunakan Pre-Training Deep Autoencoder. Jurnal Ilmu Komputer Agri-Informatika, 2021, 8, 95-104.	0.0	0

#	Article	IF	Citations
785	ChxCapsNet: Deep capsule network with transfer learning for evaluating pneumonia in paediatric chest radiographs. Measurement: Journal of the International Measurement Confederation, 2022, 188, 110491.	5.0	7
786	Deep Transfer Learning Model-Based Automated Detection of COVID-19 from X-ray Images and Interpretation of COVID-19 Images Using GLCM Texture Features. Lecture Notes in Electrical Engineering, 2022, , 581-598.	0.4	0
787	Validation of expert system enhanced deep learning algorithm for automated screening for COVID-Pneumonia on chest X-rays. Scientific Reports, 2021, 11, 23210.	3.3	8
788	Application of CycleGAN and transfer learning techniques for automated detection of COVID-19 using X-ray images. Pattern Recognition Letters, 2022, 153, 67-74.	4.2	40
789	Leveraging X-Ray and CT Scans for COVID-19 Infection Investigation Using Deep Learning Models: Challenges and Research Directions. Lecture Notes in Electrical Engineering, 2022, , 289-306.	0.4	1
790	COVID-19 anomaly detection and classification method based on supervised machine learning of chest X-ray images. Results in Physics, 2021, 31, 105045.	4.1	55
791	A Convolutional Neural Network Model for Screening COVID-19 Patients Based on CT Scan Images. Lecture Notes on Data Engineering and Communications Technologies, 2022, , 141-151.	0.7	2
792	Role of Artificial Intelligence in COVID-19 Detection. Sensors, 2021, 21, 8045.	3.8	32
793	COVID-19 Diagnostic Methods and Detection Techniques. , 2023, , 17-32.		18
794	Data augmentation using Generative Adversarial Networks (GANs) for GAN-based detection of Pneumonia and COVID-19 in chest X-ray images. Informatics in Medicine Unlocked, 2021, 27, 100779.	3.4	67
795	COVIDNet: An Automatic Architecture for COVID-19 Detection With Deep Learning From Chest X-Ray Images. IEEE Internet of Things Journal, 2022, 9, 11376-11384.	8.7	3
796	Health Vigilance for Medical Imaging Diagnostic Optimization: Automated segmentation of COVID-19 lung infection from CT images. E3S Web of Conferences, 2021, 319, 01089.	0.5	1
797	Federated Learning for COVID-19 Detection With Generative Adversarial Networks in Edge Cloud Computing. IEEE Internet of Things Journal, 2022, 9, 10257-10271.	8.7	55
799	A survey of machine learning techniques for detecting and diagnosing COVIDâ€19 from imaging. Quantitative Biology, 2022, 10, 188-207.	0.5	3
800	A Deep Learning Framework Integrating the Spectral and Spatial Features for Image-Assisted Medical Diagnostics. IEEE Access, 2021, 9, 163686-163696.	4.2	5
801	COVIDX: Computerâ€aided diagnosis of COVIDâ€19 and its severity prediction with raw digital chest Xâ€ray scans. Quantitative Biology, 2022, 10, 208-220.	0.5	1
802	*Dandelion*: Boosting DNN Usability Under Dataset Scarcity. IEEE Transactions on Computers, 2022, 71, 2487-2498.	3.4	0
803	Evaluation ofÂConvolutional Neural Networks forÂCOVID-19 Classification onÂChest X-Rays. Lecture Notes in Computer Science, 2021, , 121-132.	1.3	4

#	Article	IF	Citations
804	MHA-CoroCapsule: Multi-Head Attention Routing-Based Capsule Network for COVID-19 Chest X-Ray Image Classification. IEEE Transactions on Medical Imaging, 2022, 41, 1208-1218.	8.9	11
805	Acoustery System for Differential Diagnosing of Coronavirus COVID-19 Disease. IEEE Open Journal of Engineering in Medicine and Biology, 2021, 2, 299-303.	2.3	2
806	Indirect supervision applied to COVID-19 and pneumonia classification. Informatics in Medicine Unlocked, 2022, 28, 100835.	3.4	4
807	Overview of Multi-Factor Prediction Using Deep Neural Networks, Machine Learning, and Their Open-Source Software. Advances in Computational Intelligence and Robotics Book Series, 2022, , 1-28.	0.4	0
808	Multi-COVID-Net: Multi-objective optimized network for COVID-19 diagnosis from chest X-ray images. Applied Soft Computing Journal, 2022, 115, 108250.	7.2	18
809	Automated COVID-19 detection from X-ray and CT images with stacked ensemble convolutional neural network. Biocybernetics and Biomedical Engineering, 2022, 42, 27-41.	5.9	40
810	Survey of Applications of Neural Networks and Machine Learning to COVID-19 Predictions. Advances in Computational Intelligence and Robotics Book Series, 2022, , 30-57.	0.4	3
811	Robust weakly supervised learning for COVID-19 recognition using multi-center CT images. Applied Soft Computing Journal, 2022, 116, 108291.	7.2	23
812	The COVID-19 epidemic analysis and diagnosis using deep learning: A systematic literature review and future directions. Computers in Biology and Medicine, 2022, 141, 105141.	7.0	44
813	COV-ADSX: An Automated Detection System using X-ray Images, Deep Learning, and XGBoost for COVID-19. Software Impacts, 2022, 11, 100210.	1.4	12
814	One Shot Model For The Prediction of COVID-19 And Lesions Segmentation In Chest CT Scans Through The Affinity Among Lesion Mask Features. Applied Soft Computing Journal, 2022, 116, 108261.	7.2	5
815	BEMD-3DCNN-based method for COVID-19 detection. Computers in Biology and Medicine, 2022, 142, 105188.	7.0	15
816	A novel Gray-Scale spatial exploitation learning Net for COVID-19 by crawling Internet resources. Biomedical Signal Processing and Control, 2022, 73, 103441.	5.7	19
817	Custom convolutional neural network with data augmentation to predict Pneumonia COVID19. , 2020, , .		2
818	A Novel Approach to Differentiate COVID-19 Pneumonia in Chest X-ray. , 2020, , .		3
819	Detection of COVID-19 using Chest X-Ray Scans. , 2020, , .		7
821	Impact of Patch-Size on Classification Accuracy of Latent Fingerprint Image in Stacked Convolutional Auto-encoder based Segmentation and Detection. , 2020, , .		2
822	Automated Pneumoconiosis Detection on Chest X-Rays Using Cascaded Learning with Real and Synthetic Radiographs. , 2020, , .		11

#	Article	IF	Citations
823	Machine Learning Based Decision Support System for Determining the Priority of Covid–19 Patients. , 2020, , .		1
824	Optimized Deep Transfer Learning for Covid-19 Screening using Chest X-Ray Image. , 2020, , .		1
825	Accurate Prediction of COVID-19 (+) Using AI Deep VGG16 Model. , 2020, , .		11
826	COVID-19 Detection using Chest X-Ray Images through a Convolutional Neural Network and Transfer Learning. International Journal for Research in Applied Science and Engineering Technology, 2020, 8, 518-523.	0.1	0
827	Covid-19 Classification Using Deep Learning in Chest X-Ray Images. , 2020, , .		35
828	Automatic Segmentation of COVID-19 CT Images using improved MultiResUNet. , 2020, , .		4
829	Transfer Learning Based Method for COVID-19 Detection From Chest X-ray Images. , 2020, , .		8
830	A Multi-Model Based Ensembling Approach to Detect COVID-19 from Chest X-Ray Images. , 2020, , .		5
831	Covid19 Identification from Chest X-ray Images using Machine Learning Classifiers with GLCM Features. Electronic Letters on Computer Vision and Image Analysis, 2020, 19, 85-97.	0.6	7
833	COVID-19 detection from X-ray images using artificial intelligence. , 2021, , 209-224.		2
834	X-Ä±ÅŸÄ±nÄ± gÃ¶rÃ¼ntÃ¼lerinden omuz implantlarÄ±nÄ±n tespiti ve sÄ±nÄ±flandÄ±rÄ±lmasÄ±: YOLO ve Ã¶nceden eÄŸitilmiÅŸ evriÅŸimsel sinir aÄŸÄ± tabanlÄ± bir yaklaÅŸÄ±m. Journal of the Faculty of Engineering and Architecture of Gazi University, 2021, 37, 283-294.	0.8	4
835	Time series Covid 19 Predictions with Machine Learning Models. , 2021, , .		0
839	Transfer learning-based method for detection of COVID-19 using X-Ray Images. , 2021, , .		0
840	Classification of Pulmonary Viruses X-ray and Detection of COVID-19 Based on Invariant of Inception-V3 Deep Learning Model. , 2021, , .		3
841	Analyzing the Impact of Resampling Approaches on Chest X-Ray Images for COVID-19 Identification in a Local Hierarchical Classification Scenario. , 2021, , .		1
842	Detection of COVID-19 Using Genomic Image Processing Techniques. , 2021, , .		2
843	A Hierarchical Classification System for the Detection of Covid-19 from Chest X-Ray Images. , 2021, , .		6
844	COVID-19 Prediction Using Chest X-rays Images. , 2021, , .		3

#	ARTICLE	IF	CITATIONS
845	Artificial Intelligence Research on COVID-19 Pandemic: A Bibliometric Analysis. , 2021, , .		2
846	A deep learning model for CXR-based COVID-19 detection. , 2021, , .		4
847	A Non-local Hierarchical Refinement Fully Convolutional Network for COVID-19 Infected Region Segmentation. , 2021, , .		0
848	Interpreting Uncertainty in Model Predictions for Covid-19 Diagnosis. , 2021, 2021, 2034-2037.		1
849	Combating COVID-19 using object detection techniques for next-generation autonomous systems. , 2022, , 55-73.		0
850	Interpretable COVID-19 Chest X-Ray Classification via Orthogonality Constraint. SSRN Electronic Journal, 0, , .	0.4	0
851	A framework of genetic algorithm-based CNN on multi-access edge computing for automated detection of COVID-19. Journal of Supercomputing, 2022, 78, 10250-10274.	3.6	13
852	An efficient COVID-19 detection from CT images using ensemble support vector machine with Ludo game-based swarm optimisation. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2022, 10, 675-686.	1.9	2
853	VGGCOV19-NET: automatic detection of COVID-19 cases from X-ray images using modified VGG19 CNN architecture and YOLO algorithm. Neural Computing and Applications, 2022, 34, 8253-8274.	5.6	39
854	Covid-19 Symptoms Periods Detection Using Transfer-Learning Techniques. Intelligent Automation and Soft Computing, 2022, 32, 1921-1937.	2.1	4
855	X-Ray Görüntülerinden COVID-19 Tespiti için Derin Öğrenme Temelli Bir Yaklaşım. European Journal of Science and Technology, 0, , .	0.5	2
857	COVID-19 detection on chest radiographs using feature fusion based deep learning. Signal, Image and Video Processing, 2022, 16, 1455-1462.	2.7	11
858	Covid-19 Pandemic and Disruptive Technologies Across Scientific Areas: A Bibliometric Review. Lecture Notes in Networks and Systems, 2022, , 567-580.	0.7	1
859	Coronavirus Detection Using Two Step-AS Clustering and Ensemble Neural Network Model. Computers, Materials and Continua, 2022, 71, 6307-6331.	1.9	1
860	Hybrid quantum-classical convolutional neural network model for COVID-19 prediction using chest X-ray images. Journal of Computational Design and Engineering, 2022, 9, 343-363.	3.1	49
861	Automatic coronavirus disease 2019 diagnosis based on chest radiography and deep learning â€" Success story or dataset bias?. Medical Physics, 2022, 49, 978-987.	3.0	8
862	Detecting COVID-19 Status Using Chest X-ray Images and Symptoms Analysis by Own Developed Mathematical Model: A Model Development and Analysis Approach. Covid, 2022, 2, 117-137.	1.5	1
863	A complete framework for accurate recognition and prognosis of COVID-19 patients based on deep transfer learning and feature classification approach. Artificial Intelligence Review, 2022, 55, 5063-5108.	15.7	16

#	Article	IF	Citations
864	A novel study for automatic two-class COVID-19 diagnosis (between COVID-19 and Healthy, Pneumonia) on X-ray images using texture analysis and 2-D/3-D convolutional neural networks. Multimedia Systems, 2022, , 1-19.	4.7	0
865	A review of deep learning-based detection methods for COVID-19. Computers in Biology and Medicine, 2022, 143, 105233.	7.0	77
866	A light-weight convolutional Neural Network Architecture for classification of COVID-19 chest X-Ray images. Multimedia Systems, 2022, 28, 1165-1174.	4.7	14
867	Epidemiology Forecasting ofÂCOVID-19 Using AIâ€"A Survey. , 2022, , 89-120.		3
868	CheXImageNet: a novel architecture for accurate classification of Covid-19 with chest x-ray digital images using deep convolutional neural networks. Health and Technology, 2022, 12, 193-204.	3.6	18
869	DisCOV: Distributed COVID-19 Detection on X-Ray Images With Edge-Cloud Collaboration. IEEE Transactions on Services Computing, 2022, 15, 1206-1219.	4.6	71
870	Analytical Study of Deep Learning-Based Preventive Measures of COVID-19 for Decision Making and Aggregation via the RISTECB Model. Scientific Programming, 2022, 2022, 1-17.	0.7	4
871	Deep Cp-Cxr: A Deep Learning Model for Identification of Covid-19 and Pneumonia Disease Using Chest X-Ray Images. SSRN Electronic Journal, 0, , .	0.4	0
872	COVID-19 Detection in Chest X-ray Images Using a New Channel Boosted CNN. Diagnostics, 2022, 12, 267.	2.6	42
873	An automated COVID-19 triage pipeline using artificial intelligence based on chest radiographs and clinical data. Npj Digital Medicine, 2022, 5, 5.	10.9	22
875	Automated detection of COVID-19 through convolutional neural network using chest x-ray images. PLoS ONE, 2022, 17, e0262052.	2.5	49
876	COVID-19 disease diagnosis from paper-based ECG trace image data using a novel convolutional neural network model. Physical and Engineering Sciences in Medicine, 2022, 45, 167-179.	2.4	18
877	Deep Learning for Reliable Classification of COVID-19, MERS, and SARS from Chest X-ray Images. Cognitive Computation, 2022, 14, 1752-1772.	5.2	29
878	Early diagnosis of COVID-19 patients using deep learning-based deep forest model. Journal of Experimental and Theoretical Artificial Intelligence, 2023, 35, 365-375.	2.8	6
879	An Intelligent Information System and Application for the Diagnosis and Analysis of COVID-19. Lecture Notes in Networks and Systems, 2022, , 391-396.	0.7	3
880	Explainable AI for Fighting COVID-19 Pandemic: Opportunities, Challenges, and Future Prospects. , 2022, , 315-332.		8
881	Diagnostic Performance of a Deep Learning Model Deployed at a National COVID-19 Screening Facility for Detection of Pneumonia on Frontal Chest Radiographs. Healthcare (Switzerland), 2022, 10, 175.	2.0	8
882	Detection and diagnosis of <scp>COVID</scp>â€19 infection in lungs images using deep learning techniques. International Journal of Imaging Systems and Technology, 2022, 32, 462-475.	4.1	8

#	ARTICLE	IF	CITATIONS
883	Efficient and visualizable convolutional neural networks for COVID-19 classification using Chest CT. Expert Systems With Applications, 2022, 195, 116540.	7.6	30
884	A Time-Series Feature-Based Recursive Classification Model to Optimize Treatment Strategies for Improving Outcomes and Resource Allocations of COVID-19 Patients. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 3323-3329.	6.3	8
885	Using artificial intelligence technology to fight COVID-19: a review. Artificial Intelligence Review, 2022, 55, 4941-4977.	15.7	24
886	FPGA üzerinde görüntü işleme algoritmalarının gerçek zamanlı gerçekleştirilmesi. Balıkesir Üniversitesi Fen Bilimleri Enstitüsü Dergisi, 2022, 24, 125-137.	0.3	1
887	UNAS-Net: A deep convolutional neural network for predicting Covid-19 severity. Informatics in Medicine Unlocked, 2022, 28, 100842.	3.4	7
888	Multimodal covid network: Multimodal bespoke convolutional neural network architectures for COVID–19 detection from chest X–ray's and computerized tomography scans. International Journal of Imaging Systems and Technology, 2022, 32, 704-716.	4.1	9
889	Smart and Automated Diagnosis of COVID-19 Using Artificial Intelligence Techniques. Intelligent Automation and Soft Computing, 2022, 32, 1403-1413.	2.1	3
891	An IoT-enabled smart health care system for screening of COVID-19 with multi layers features fusion and selection. Computing (Vienna/New York), 2023, 105, 743-760.	4.8	21
892	A Novel Framework Based on Deep Learning and ANOVA Feature Selection Method for Diagnosis of COVID-19 Cases from Chest X-Ray Images. Computational Intelligence and Neuroscience, 2022, 2022, 1-11.	1.7	45
893	A SVM Based Model for COVID Detection Using CXR Image. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2022, , 368-381.	0.3	2
894	Transfer Learning-Based Economical and Rapid COVID-19 Detection Using X-Rays Images. , 2022, , 185-207.		1
895	COVID-CT-Mask-Net: prediction of COVID-19 from CT scans using regional features. Applied Intelligence, 2022, 52, 9664-9675.	5.3	22
896	DeepCov19Net: Automated COVID-19 Disease Detection with a Robust and Effective Technique Deep Learning Approach. New Generation Computing, 2022, 40, 1053-1075.	3.3	12
897	A holistic overview of deep learning approach in medical imaging. Multimedia Systems, 2022, 28, 881-914.	4.7	37
898	Detecting COVID-19-Related Fake News Using Feature Extraction. Frontiers in Public Health, 2021, 9, 788074.	2.7	21
899	COV-ECGNET: COVID-19 detection using ECG trace images with deep convolutional neural network. Health Information Science and Systems, 2022, 10, 1.	5.2	66
900	CoCross: An ICT Platform Enabling Monitoring Recording and Fusion of Clinical Information Chest Sounds and Imaging of COVID-19 ICU Patients. Healthcare (Switzerland), 2022, 10, 276.	2.0	5
901	A three-stage ensemble boosted convolutional neural network for classification and analysis of COVID-19 chest x-ray images. International Journal of Cognitive Computing in Engineering, 2022, 3, 35-45.	8.2	14

#	Article	IF	Citations
904	COVID-19 Detection Based on Lung Ct Scan Using Deep Learning Techniques. Computational and Mathematical Methods in Medicine, 2022, 2022, 1-13.	1.3	86
905	CoviLearn: A Machine Learning Integrated Smart X-Ray Device in Healthcare Cyber-Physical System for Automatic Initial Screening of COVID-19. SN Computer Science, 2022, 3, 150.	3.6	7
906	Performance change with the number of training data: A case study on the binary classification of COVID-19 chest X-ray by using convolutional neural networks. Computers in Biology and Medicine, 2022, 142, 105251.	7.0	9
907	COVID-19 diagnosis using state-of-the-art CNN architecture features and Bayesian Optimization. Computers in Biology and Medicine, 2022, 142, 105244.	7.0	70
908	A fuzzy-enhanced deep learning approach for early detection of Covid-19 pneumonia from portable chest X-ray images. Neurocomputing, 2022, 481, 202-215.	5.9	79
909	SAM: Self-augmentation mechanism for COVID-19 detection using chest X-ray images. Knowledge-Based Systems, 2022, 241, 108207.	7.1	30
910	Systems pharmacology-based drug discovery and active mechanism of natural products for coronavirus pneumonia (COVID-19): An example using flavonoids. Computers in Biology and Medicine, 2022, 143, 105241.	7.0	15
913	A Densely Interconnected Convolutional Neural Network-Based Approach to Identify COVID-19 from Chest X-ray Images. Lecture Notes in Electrical Engineering, 2022, , 419-425.	0.4	6
914	Covid-19 Detection Using X-Ray Image. Communications in Computer and Information Science, 2022, , 57-72.	0.5	0
915	A Review on the Use of Machine Learning Against the Covid-19 Pandemic. Engineering, Technology & Applied Science Research, 2022, 12, 8039-8044.	1.9	6
916	Automatic Diagnosis of Covid-19 Related Pneumonia from CXR and CT-Scan Images. Engineering, Technology & Applied Science Research, 2022, 12, 7993-7997.	1.9	20
917	Detection of COVID-19 Based on Chest X-rays Using Deep Learning. Healthcare (Switzerland), 2022, 10, 343.	2.0	35
918	Technical note: Evaluation of a Vâ€Net autosegmentation algorithm for pediatric CT scans: Performance, generalizability, and application to patientâ€specific CT dosimetry. Medical Physics, 2022, 49, 2342-2354.	3.0	5
919	VEntNet : Hybrid deep convolutional neural network model for automated multiâ€class categorization of chest Xâ€rays. International Journal of Imaging Systems and Technology, 0, , .	4.1	0
920	Chest X-ray Classification for the Detection of COVID-19 Using Deep Learning Techniques. Sensors, 2022, 22, 1211.	3.8	66
921	Intelligent Data Analysis for Infection Spread Prediction. Sustainability, 2022, 14, 1995.	3.2	3
922	Efficient multimodal deep-learning-based COVID-19 diagnostic system for noisy and corrupted images. Journal of King Saud University - Science, 2022, 34, 101898.	3.5	11
923	QCovSML: A reliable COVID-19 detection system using CBC biomarkers by a stacking machine learning model. Computers in Biology and Medicine, 2022, 143, 105284.	7.0	24

#	ARTICLE	IF	CITATIONS
924	A cognitive framework based on deep neural network for classification of coronavirus disease. Journal of Ambient Intelligence and Humanized Computing, 2022, , 1-15.	4.9	1
925	Deep features to detect pulmonary abnormalities in chest X-rays due to infectious diseaseX: Covid-19, pneumonia, and tuberculosis. Information Sciences, 2022, 592, 389-401.	6.9	55
926	A Rapid Artificial Intelligence-Based Computer-Aided Diagnosis System for COVID-19 Classification from CT Images. Behavioural Neurology, 2021, 2021, 1-13.	2.1	22
928	Research on the detection of COVID-19 via X-ray images based on triplet network under the condition of scarce data. , 2022, , .		0
929	COVID-19 Detection on Chest X-Ray and CT Scan Images Using Multi-image Augmented Deep Learning Model. Advances in Intelligent Systems and Computing, 2022, , 395-413.	0.6	13
930	Machine Learning Algorithms for Big Data Mining Processing: A Review. Lecture Notes in Networks and Systems, 2022, , 43-55.	0.7	3
931	A comparative study of X-ray and CT images in COVID-19 detection using image processing and deep learning techniques. Computer Methods and Programs in Biomedicine Update, 2022, 2, 100054.	3.7	20
933	COVID Detection From Chest X-Ray Images Using Multi-Scale Attention. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 1496-1505.	6.3	12
934	Deep Learning Applications for COVID-19: A Brief Review. Lecture Notes in Networks and Systems, 2022, , 117-130.	0.7	5
935	The identification of risk factors associated with COVID-19 in a large inpatient cohort using machine learning approaches. , 2022, , 189-199.		0
936	Performance Analysis of Convolutional Neural Network Architectures for the Identification of COVID-19 from Chest X-ray Images. , 2022, , .		2
937	Exploring Deep Learning Applications for COVID-19 Using X-Ray. SSRN Electronic Journal, 0, , .	0.4	0
938	Diagnosis and Medicine Prediction for COVID-19 Using Machine Learning Approach. Lecture Notes in Electrical Engineering, 2022, , 123-133.	0.4	16
939	Thermal Camera-Based COVID-19 Detection. Advances in Intelligent Systems and Computing, 2022, , 395-402.	0.6	1
940	Convolutional Neural Networks for Detection of COVID-19 From Chest X-Rays. International Journal of Ambient Computing and Intelligence, 2022, 13, 1-21.	1.1	1
941	Transfer learning with fine-tuned deep CNN ResNet50 model for classifying COVID-19 from chest X-ray images. Informatics in Medicine Unlocked, 2022, 30, 100916.	3.4	33
942	Deep-Precognitive Diagnosis: Preventing Future Pandemics by Novel Disease Detection With Biologically-Inspired Conv-Fuzzy Network. IEEE Access, 2022, 10, 23167-23185.	4.2	5
944	Transfer Learning Based Multiclass Classification for COVID-19 Detection Using Chest X-Rays. Algorithms for Intelligent Systems, 2022, , 213-227.	0.6	1

#	Article	IF	Citations
945	CapsNet-COVID19: Lung CT image classification method based on CapsNet model. Mathematical Biosciences and Engineering, 2022, 19, 5055-5074.	1.9	1
946	Deep Learning Approaches for Automated Diagnosis of COVID-19 Using Imbalanced Training CXR Data. Communications in Computer and Information Science, 2022, , 453-472.	0.5	3
948	COVID-19 prediction through X-ray images using transfer learning-based hybrid deep learning approach. Materials Today: Proceedings, 2022, 51, 2520-2524.	1.8	5
950	Deep learning on medical image analysis on COVID-19 x-ray dataset using an X-Net architecture. , 2022, , 71-106.		1
951	Analysis of COVID-19 Using Imaging and Audio Modalities. , 2022, , .		0
952	COVID-19 Diagnosis System using SimpNet Deep Model. Baghdad Science Journal, 2022, , .	0.6	0
953	MedRDF: A Robust and Retrain-Less Diagnostic Framework for Medical Pretrained Models Against Adversarial Attack. IEEE Transactions on Medical Imaging, 2022, 41, 2130-2143.	8.9	5
955	Convolutional Neural Network-Based Automatic Analysis of Chest Radiographs for the Detection of COVID-19 Pneumonia: A Prioritizing Tool in the Emergency Department, Phase I Study and Preliminary â€œReal Lifeâ€•Results. Diagnostics, 2022, 12, 570.	2.6	4
956	Lightweight Neural Network for COVID-19 Detection from Chest X-ray Images Implemented on an Embedded System. Technologies, 2022, 10, 37.	5.1	12
957	Classification of Covid-19 Based on a Combination of GLCM and Deep Features by Using X-Ray Images. Ä°nÃ¶nÃ¼ Ãœniversitesi SaÄŸlÄ±k Hizmetleri Meslek YÃ¼ksek Okulu Dergisi, 2022, 10, 313-325.	0.7	2
958	Pneumonia identification based on lung texture analysis using modified k-nearest neighbour. Journal of Physics: Conference Series, 2022, 2193, 012070.	0.4	1
959	Recognizing COVID-19 from chest X-ray images for people in rural and remote areas based on deep transfer learning model. Multimedia Tools and Applications, 2022, 81, 1-21.	3.9	2
960	An Efficient Deep Learning Model to Detect COVID-19 Using Chest X-ray Images. International Journal of Environmental Research and Public Health, 2022, 19, 2013.	2.6	30
961	Machine learning-based automatic detection of novel coronavirus (COVID-19) disease. Multimedia Tools and Applications, 2022, 81, 13731-13750.	3.9	29
962	Deep Residual Neural Network for COVID-19 Detection from Chest X-ray Images. SN Computer Science, 2022, 3, 169.	3.6	7
963	Protecting Personal Healthcare Record Using Blockchain & Federated Learning Technologies. , 2022, , .		21
964	Radiological Analysis of COVID-19 Using Computational Intelligence: A Broad Gauge Study. Journal of Healthcare Engineering, 2022, 2022, 1-25.	1.9	9
965	Diagnosis of COVID-19 Cases from Chest X-ray Images Using Deep Neural Network and LightGBM. , 2022, , .		10

#	ARTICLE	IF	CITATIONS
966	Quo vadis artificial intelligence?. Discover Artificial Intelligence, 2022, 2, 1.	3.1	75
967	AI-enabled radiologist in the loop: novel AI-based framework to augment radiologist performance for COVID-19 chest CT medical image annotation and classification from pneumonia. Neural Computing and Applications, 2023, 35, 14591-14609.	5.6	13
968	Automated detection of COVID-19 cases from chest X-ray images using deep neural network and XGBoost. Radiography, 2022, 28, 732-738.	2.1	52
969	A deep learning-based framework for detecting COVID-19 patients using chest X-rays. Multimedia Systems, 2022, 28, 1495-1513.	4.7	20
970	Covid-19 Classification Using HOG-SVM and Deep Learning Models. , 2022, , .		5
971	Performance evaluation of CNN architectures for COVID-19 detection from X-ray images. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 0, , 1-14.	1.9	0
972	Machine Learning with Quantum Seagull Optimization Model for COVID-19 Chest X-Ray Image Classification. Journal of Healthcare Engineering, 2022, 2022, 1-13.	1.9	10
973	A Literature Review on the Use of Artificial Intelligence for the Diagnosis of COVID-19 on CT and Chest X-ray. Diagnostics, 2022, 12, 869.	2.6	10
974	Determination of the Severity and Percentage of COVID-19 Infection through a Hierarchical Deep Learning System. Journal of Personalized Medicine, 2022, 12, 535.	2.5	8
975	A radiomics‐boosted deep‐learning model for COVID‐19 and non‐COVID‐19 pneumonia classification using chest x‐ray images. Medical Physics, 2022, 49, 3213-3222.	3.0	18
976	An adaptive feature extraction method for classification of Covid-19 X-ray images. Signal, Image and Video Processing, 2022, , 1-8.	2.7	0
977	COVID-19 Detection using Chest X-RAY. International Journal of Circuits, Systems and Signal Processing, 2022, 16, 859-864.	0.3	1
978	Four Types of Multiclass Frameworks for Pneumonia Classification and Its Validation in X-ray Scans Using Seven Types of Deep Learning Artificial Intelligence Models. Diagnostics, 2022, 12, 652.	2.6	23
979	Impact of Artificial Intelligence in COVID-19 Pandemic: A Comprehensive Review. , 2022, , .		1
980	Medical image augmentation for lesion detection using a texture-constrained multichannel progressive GAN. Computers in Biology and Medicine, 2022, 145, 105444.	7.0	82
981	Classification of COVID-19 from chest x-ray images using deep features and correlation coefficient. Multimedia Tools and Applications, 2022, 81, 27631-27655.	3.9	22
982	X-ray image based COVID-19 detection using evolutionary deep learning approach. Expert Systems With Applications, 2022, 201, 116942.	7.6	32
983	Diagnosis of COVID-19 using chest X-ray images based on modified DarkCovidNet model. Evolutionary Intelligence, 2023, 16, 729-738.	3.6	9

#	Article	IF	Citations
984	A COVIDâ€19 CXR image recognition method based on MSAâ€ÐDCovidNet. IET Image Processing, 2022, 16, 2101-2113.	2.5	7
985	Detection of COVID19 from X-ray images using multiscale Deep Convolutional Neural Network. Applied Soft Computing Journal, 2022, 119, 108610.	7.2	22
987	Comparison of deep learning architectures for COVID-19 diagnosis using chest X-ray images. , 2022, , .		0
988	Detecting COVID-19 from chest computed tomography scans using AI-driven android application. Computers in Biology and Medicine, 2022, 143, 105298.	7.0	32
989	Think positive: An interpretable neural network for image recognition. Neural Networks, 2022, 151, 178-189.	5.9	12
990	Deep Learning Applied to Chest Radiograph Classificationâ€"A COVID-19 Pneumonia Experience. Applied Sciences (Switzerland), 2022, 12, 3712.	2.5	6
991	A deep learning approach for COVID-19 screening and localization on chest x-ray images. , 2022, , .		0
992	Attention-based 3D CNN with residual connections for efficient ECG-based COVID-19 detection. Computers in Biology and Medicine, 2022, 143, 105335.	7.0	16
993	COVID-CCD-Net: COVID-19 and colon cancer diagnosis system with optimized CNN hyperparameters using gradient-based optimizer. Medical and Biological Engineering and Computing, 2022, 60, 1595-1612.	2.8	7
994	Multi-classification deep CNN model for diagnosing COVID-19 using iterative neighborhood component analysis and iterative ReliefF feature selection techniques with X-ray images. Chemometrics and Intelligent Laboratory Systems, 2022, 224, 104539.	3.5	18
995	Revealing Behavior Patterns of SARS-CoV-2 using Clustering Analysis and XGBoost Error Forecasting Models. Iranian Journal of Medical Microbiology, 2022, 16, 221-232.	0.6	0
996	COVID-19 image classification using deep learning: Advances, challenges and opportunities. Computers in Biology and Medicine, 2022, 144, 105350.	7.0	65
997	Industry 4.0 technologies and their applications in fighting COVID-19 pandemic using deep learning techniques. Computers in Biology and Medicine, 2022, 145, 105418.	7.0	16
998	A privacy-aware method for COVID-19 detection in chest CT images using lightweight deep conventional neural network and blockchain. Computers in Biology and Medicine, 2022, 145, 105461.	7.0	44
999	Diagnosis of COVID-19 from Chest X-Ray Images Using Convolutional Neural Networking with K-Fold Cross Validation. , 2021, , .		2
1000	Machine Learning Applications in Forecasting of COVID-19 Based on Patients' Individual Symptoms. , 2021, , .		1
1001	Detection of COVID-19 from Chest X-ray Images: A Deep Learning Approach. , 2021, , .		1
1002	Covid-19 and Artificial Intelligence: Potential and Challenges. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
1003	Artificial Intelligence applications addressing different aspects of the Covid-19 crisis and key technological solutions for future epidemics control. , 2021, , .		1
1004	Deep Learning Feature Extraction for COVID19 Detection Algorithm using Computerized Tomography Scan. , 2021, , .		8
1005	Lightweight Deep Learning Model for Automated COVID-19 Diagnosis from CXR Images. , 2021, , .		3
1006	Anisotropic Diffusion-based Multiscale Medical Image Analysis Technique for COVID-19 Detection. , 2021, , .		1
1007	Covid-19 Detection by using Deep learning-based Custom Convolution Neural Network (CNN). , 2021, , .		1
1008	Artificial Intelligence (AI) in the diagnosis of COVID-19 Detection: A Review. , 2021, , .		0
1009	FLOSSC: A Computer-Aided Tool for Detecting Corona Virus Infections through Chest X-Ray Images. , 2021, , .		1
1010	Attention based Covid-19 Detection using Generative Adversarial Network. , 2021, , .		3
1011	Transfer Learning-Based Approach for Identification of COVID-19. , 2021, , .		4
1012	Optimizing Deep Convolutional Neural Network With Fine-Tuning and Data Augmentation For Covid-19 Prediction. , 2021, , .		0
1013	TDA-Net: Fusion of Persistent Homology and Deep Learning Features for COVID-19 Detection From Chest X-Ray Images. , 2021, 2021, 4115-4119.		10
1014	A Novel Technique to Classify Face Mask for Human Safety. , 2021, , .		2
1015	Deep Learning Based Intelligent Classification Of Covid-19 & Pneumonia Using Cough Auscultations. , 2021, , .		0
1016	Derin Transfer Ã–ÄŸrenimi YaklaÅŸÄ±mÄ± ile Kamusal Alanda Medikal Maske KullanÄ±mÄ±nÄ±n Otomatik KontrolÃ¼. TÃ¼rk DoÄŸa Ve Fen Dergisi, 2021, 10, 191-198.	0.5	0
1017	Determining and Measuring the Amount of Region Having COVID-19 on Lung Images. Applied Computer Science, 2021, 26, 183-193.	0.5	0
1018	Covid-19 Detection from Pneumonia Image Classification Using Deep Learning. Advances in Intelligent Systems and Computing, 2022, , 35-47.	0.6	0
1019	A Shadow Capture Deep Neural Network for Underwater Forward-Looking Sonar Image Detection. Mobile Information Systems, 2021, 2021, 1-10.	0.6	2
1020	Demystify the Black-box of Deep Learning Models for COVID-19 Detection from Chest CT Radiographs. , 2021, , .		1

#	Article	IF	Citations
1021	An ensemble learning based approach to autonomous COVID19 detection using transfer learning with the help of pre-trained Deep Neural Network models. , 2021, , .		2
1022	CGENet: A Deep Graph Model for COVID-19 Detection Based on Chest CT. Biology, 2022, 11, 33.	2.8	25
1023	Detection of Covid-19 from X-ray Images via Ensemble of Features Extraction Methods Employing Randomized Neural Networks. European Journal of Technic, 0, , .	0.3	2
1024	Artificial Intelligence (AI) and Big Data Analytics for the COVID-19 Pandemic. , 2022, , 1-17.		1
1025	DeepCOVIDNet: Deep Convolutional Neural Network for COVID-19 Detection from Chest Radiographic Images. , 2021, 2021, 1703-1710.		1
1026	A new pulmonary disease diagnosis system based on EfficientNet and transfer learning. , 2021, , .		0
1027	An Exploration into the Detection of COVID-19 from Chest X-ray Scans Using the xRGM-NET Convolutional Neural Network. Technologies, 2021, 9, 98.	5.1	0
1028	A novel LT-LBP based prediction model for COVID-CT images with Machine Learning. , 2021, , .		0
1029	Convolution Neural network based Marine Predator Algorithm for COVID-19 detection. , 2021, , .		4
1030	A fused lightweight CNN model for the diagnosis of COVID-19 using CT scan images. Automatika, 2022, 63, 171-184.	2.0	14
1031	A Bag-of-Features (BoF) Based Novel Framework for the Detection of COVID-19. , 2021, , .		0
1032	MobileNetV2 Based Chest X-Rays Classification. , 2021, , .		7
1033	Applications of artificial intelligence in the thorax: a narrative review focusing on thoracic radiology. Journal of Thoracic Disease, 2021, 13, 6943-6962.	1.4	10
1034	Fusion of multi-scale bag of deep visual words features of chest X-ray images to detect COVID-19 infection. Scientific Reports, 2021, 11, 23914.	3.3	33
1035	Computer‐aided diagnosis of <scp>COVID</scp>‐19 disease from chest X‐ray images integrating deep feature extraction. Expert Systems, 2022, 39, .	4.5	11
1036	CompDNet-512: Hybrid Deep Learning Architecture for Prediction of COVID-19. , 2021, , .		1
1037	Novel Multi-Modal Throat Inflammation and Chest Radiography based Early-Diagnosis and Mass-Screening of COVID-19. Open Biomedical Engineering Journal, 2021, 15, 226-235.	0.5	2
1038	Predicting COVID-19 Cases in South Korea with All K-Edited Nearest Neighbors Noise Filter and Machine Learning Techniques. Information (Switzerland), 2021, 12, 528.	2.9	6

#	Article	IF	Citations
1040	A Dual-Stage Vocabulary of Features (VoF)-Based Technique for COVID-19 Variantsâ€™ Classification. Applied Sciences (Switzerland), 2021, 11, 11902.	2.5	9
1041	Dynamic Distributed and Parallel Machine Learning algorithms for big data mining processing. Data Technologies and Applications, 2022, 56, 558-601.	1.4	1
1042	COVID-CBR: A Deep Learning Architecture Featuring Case-Based Reasoning for Classification of COVID-19 from Chest X-Ray Images. , 2021, , .		1
1043	Comparison of Lightweight and Traditional CNN Architectures in COVID-19 Detection from Lung X-Ray Images. DÃ¼zce Ãœniversitesi Bilim Ve Teknoloji Dergisi, 2021, 9, 26-39.	0.7	3
1044	D2-CovidNet: A Deep Learning Model for COVID-19 Detection in Chest X-Ray Images. Computational Intelligence and Neuroscience, 2021, 2021, 1-10.	1.7	3
1045	X-ray versus computerized tomography (CT) images for detection of COVID-19 using deep learning. F1000Research, 0, 10, 1292.	1.6	1
1047	COVID-19 Identification Using Deep Capsule Network: A Perspective of Super-Resolution CNN on Low-Quality CXR Images. , 2021, , .		0
1048	A Survey of the Application of Artifical Intellegence on COVID-19 Diagnosis and Prediction. Engineering, Technology & Applied Science Research, 2021, 11, 7824-7835.	1.9	3
1049	Tiled Sparse Coding in Eigenspaces for Image Classification. International Journal of Neural Systems, 2022, 32, 2250007.	5.2	9
1050	COVIDâ€19 detection with severity level analysis using the deep features, and wrapperâ€based selection of ranked features. Concurrency Computation Practice and Experience, 2022, 34, .	2.2	3
1051	An Integrated Approach for Monitoring Social Distancing and Face Mask Detection Using Stacked ResNet-50 and YOLOv5. Electronics (Switzerland), 2021, 10, 2996.	3.1	24
1052	A Discriminative Deep Neural Network for COVID-19 Detection. , 2021, , .		0
1053	CNN Based COVID-19 Prediction from Chest X-ray Images. , 2021, , .		3
1054	Explainability Of Artificial Intelligence For Diagnosing COVID-19 From Chest X-Rays. , 2021, , .		1
1055	Detection of COVID-19 from X-Ray Images using Deep Neural Networks. , 2021, , .		0
1056	A Survey on Deep Learning and Machine Learning for COVID-19 Detection. , 2021, , .		0
1057	Automated COVID-19 detection using Deep Convolutional Neural Network and Chest X-ray Images. , 2021, , .		1
1059	Ã‡EKÄ°ÅžMELÄ° ÃœRETÄ°CÄ° AÄžLAR VE TRANSFER Ã–ÄžRENÄ°MÄ° KULLANILARAK GÃ–ÄžÃœS X-RAY GÃ–RÃœNTÃœLERÄ°NDEN COVID ÃœZERÄ°NE BÄ°R DERLEME. MÃ¼hendislik Bilimleri Ve TasarÄ±m Dergisi, 2022, 10, 328-340.	0.3	0

#	Article	IF	Citations
1060	A Review on Deep Learning based diagnosis of COVID-19 from X-ray and CT Images. , 2022, , .		4
1061	A Two-Stage Low-Altitude Remote Sensing Papaver Somniferum Image Detection System Based on YOLOv5s+DenseNet121. Remote Sensing, 2022, 14, 1834.	4.0	5
1062	COV-DLS: Prediction of COVID-19 from X-Rays Using Enhanced Deep Transfer Learning Techniques. Journal of Healthcare Engineering, 2022, 2022, 1-13.	1.9	7
1063	Detection and visualization of COVID-19 in chest X-ray images using CNN and Grad-CAM (GCCN). , 2022, , .		2
1064	Research on Wastewater Treatment Monitoring Algorithms Based on Deep Convolutional Neural Networks. Wireless Communications and Mobile Computing, 2022, 2022, 1-11.	1.2	0
1065	A Deep Convolutional Neural Network Based Risk Identification Method for E-Commerce Supply Chain Finance. Scientific Programming, 2022, 2022, 1-10.	0.7	1
1066	Initial Stage COVID-19 Detection System Based on Patients' Symptoms and Chest X-Ray Images. Applied Artificial Intelligence, 2022, 36, .	3.2	33
1067	TSRNet: Diagnosis of COVID-19 based on self-supervised learning and hybrid ensemble model. Computers in Biology and Medicine, 2022, 146, 105531.	7.0	4
1068	Detection of COVID-19 from CT and Chest X-ray Images Using Deep Learning Models. Annals of Biomedical Engineering, 2022, 50, 825-835.	2.5	28
1069	Challenges of deep learning methods for COVID-19 detection using public datasets. Informatics in Medicine Unlocked, 2022, 30, 100945.	3.4	17
1070	Mortality Prediction of COVID-19 Patients Using Radiomic and Neural Network Features Extracted from a Wide Chest X-ray Sample Size: A Robust Approach for Different Medical Imbalanced Scenarios. Applied Sciences (Switzerland), 2022, 12, 3903.	2.5	9
1071	CADxReport: Chest x-ray report generation using co-attention mechanism and reinforcement learning. Computers in Biology and Medicine, 2022, 145, 105498.	7.0	9
1072	Audio texture analysis of COVID-19 cough, breath, and speech sounds. Biomedical Signal Processing and Control, 2022, 76, 103703.	5.7	12
1073	Assessing clinical applicability of COVID-19 detection in chest radiography with deep learning. Scientific Reports, 2022, 12, 6596.	3.3	5
1074	AutoCoV: tracking the early spread of COVID-19 in terms of the spatial and temporal patterns from embedding space by K-mer based deep learning. BMC Bioinformatics, 2022, 23, 149.	2.6	1
1075	Ensemble method for multiclassification of COVID-19 virus using spatial and frequency domain features over X-ray images. , 2022, , 267-277.		0
1076	Detection of COVID-19 from X-Ray Images: A Novel Three-Phase Approach Combining an Ensemble of Customized Convolutional Neural Networks with Feature Extraction and Fusion. SSRN Electronic Journal, 0, , .	0.4	0
1079	Transfer Learning Method with Deep Residual Network for COVID-19 Diagnosis Using Chest Radiographs Images. Lecture Notes in Networks and Systems, 2022, , 145-159.	0.7	2

#	Article	IF	Citations
1080	Detection of Covid-19 from chest X-ray scans using machine learning. AIP Conference Proceedings, 2022, , .	0.4	1
1081	CNN Features and Optimized Generative Adversarial Network for COVID-19 Detection from Chest X-Ray Images. Critical Reviews in Biomedical Engineering, 2022, 50, 1-17.	0.9	2
1083	Impact of Image Augmentation in COVID-19 Detection Using Chest X-Ray Images. , 2022, , .		0
1084	Image Pre-processing techniques comparison : COVID-19 detection through Chest X-Rays via Deep Learning. International Journal of Scientific Research in Science, Engineering and Technology, 2022, , 64-74.	0.1	0
1085	COVID-19 and Pneumonia Detection using Deep Weighted Ensemble Model. , 2022, , .		1
1086	ECOVIDNET: Snapshot Ensembling Approach to Detect Coronavirus from Chest X-ray Images. , 2022, , .		0
1087	Detection of Covid-19 in CXR: A Low Sample Size Deep Convolutional Neural Network Training Data Approach. , 2022, , .		0
1088	RESCOVIDTCNnet: A residual neural network-based framework for COVID-19 detection using TCN and EWT with chest X-ray images. Expert Systems With Applications, 2022, 204, 117410.	7.6	14
1089	Machine Learning, Deep Learning, and Mathematical Models to Analyze Forecasting and Epidemiology of COVID-19: A Systematic Literature Review. International Journal of Environmental Research and Public Health, 2022, 19, 5099.	2.6	12
1090	An empirical study of preprocessing techniques with convolutional neural networks for accurate detection of chronic ocular diseases using fundus images. Applied Intelligence, 2023, 53, 1548-1566.	5.3	9
1091	Does imbalance in chest X-ray datasets produce biased deep learning approaches for COVID-19 screening?. BMC Medical Research Methodology, 2022, 22, 125.	3.1	4
1092	Analysis of Deep Transfer Learning Methods for Early Diagnosis of the Covid-19 Disease with Chest X-ray Images. Düzce Üniversitesi Bilim Ve Teknoloji Dergisi, 2022, 10, 628-640.	0.7	1
1093	Machine Learning-Based Research for COVID-19 Detection, Diagnosis, and Prediction: A Survey. SN Computer Science, 2022, 3, 286.	3.6	24
1094	A Robust Framework for Epidemic Analysis, Prediction and Detection of COVID-19. Frontiers in Public Health, 2022, 10, .	2.7	6
1095	Investigating the Performance of FixMatch for COVID-19 Detection in Chest X-rays. Applied Sciences (Switzerland), 2022, 12, 4694.	2.5	3
1096	Study on transfer learning capabilities for pneumonia classification in chest-x-rays images. Computer Methods and Programs in Biomedicine, 2022, 221, 106833.	4.7	21
1097	CrodenseNet: An efficient parallel cross DenseNet for COVID-19 infection detection. Biomedical Signal Processing and Control, 2022, 77, 103775.	5.7	0
1098	A novel fusion based convolutional neural network approach for classification of COVID-19 from chest X-ray images. Biomedical Signal Processing and Control, 2022, 77, 103778.	5.7	20

#	ARTICLE	IF	CITATIONS
1099	COVID-19 datasets: A brief overview. Computer Science and Information Systems, 2022, 19, 1115-1132.	1.0	1
1100	Convolutional Neural Network-Based Approach to Detect COVID-19 from Chest X-Ray Images. Lecture Notes in Networks and Systems, 2022, , 231-245.	0.7	13
1102	Multiclass Convolution Neural Network for Classification of COVID-19 CT Images. Computational Intelligence and Neuroscience, 2022, 2022, 1-15.	1.7	9
1103	New Optimized Deep Learning Application for COVID-19 Detection in Chest X-ray Images. Symmetry, 2022, 14, 1003.	2.2	9
1104	Covid-19 detection from X-ray images using Customized Convolutional Neural Network. , 2022, , .		0
1105	Deep learning model for the automatic classification of COVID-19 pneumonia, non-COVID-19 pneumonia, and the healthy: a multi-center retrospective study. Scientific Reports, 2022, 12, 8214.	3.3	20
1106	Detection of COVID-19 from X-Ray Images Using Transfer Learning Neural Networks. , 2021, , .		0
1107	A Comprehensive Review of Artificial Intelligence in Prevention and Treatment of COVID-19 Pandemic. Frontiers in Genetics, 2022, 13, 845305.	2.3	4
1108	Classifying COVID-19 and viral pneumonia lung infections through deep convolutional neural network model using chest X-Ray images. Journal of Medical Physics, 2022, 47, 57.	0.3	3
1110	Semantic Pneumonia Segmentation and Classification for Covid-19 Using Deep Learning Network. Computers, Materials and Continua, 2022, 73, 1141-1158.	1.9	2
1111	Automatic Classification of COVID-19 Infected Patients Using Convolution Neural Network Models. , 2022, , 119-131.		2
1112	CheXNet forÂtheÂEvidence ofÂCovid-19 Using 2.3K Positive Chest X-rays. Communications in Computer and Information Science, 2022, , 33-41.	0.5	6
1113	COVID-19 localization and recognition on chest radiographs based on Yolov5 and EfficientNet. , 2022, , .		2
1114	Identification of COVID-19 and Pneumonia in X-Ray Images using Transfer Learning. , 2022, , .		1
1115	Evolving deep convolutional neural networks by IP-based marine predator algorithm for COVID-19 diagnosis using chest CT scans. Journal of Ambient Intelligence and Humanized Computing, 2024, 15, 451-464.	4.9	4
1116	<scp>NCA</scp>â€based hybrid convolutional neural network model for classification of cervical cancer on gaussâ€enhanced papâ€smear images. International Journal of Imaging Systems and Technology, 2022, 32, 1978-1989.	4.1	12
1117	MLPA-Net: A Novel Lightweight Multi-Channel Attention Convolutional Network for COVID-19 Image Classification Based on Chest X-Ray. SSRN Electronic Journal, 0, , .	0.4	0
1119	Deep learning model for detection of COVID-19 utilizing the chest X-ray images. Cogent Engineering, 2022, 9, .	2.2	11

#	Article	IF	Citations
1120	Explainable Vision Transformers and Radiomics for COVID-19 Detection in Chest X-rays. Journal of Clinical Medicine, 2022, 11, 3013.	2.4	22
1121	Exploring the Deep-Learning Techniques in Detecting the Presence of Coronavirus in the Chest X-Ray Images: A Comprehensive Review. Archives of Computational Methods in Engineering, 2022, 29, 5381-5395.	10.2	2
1122	An Analysis of New Feature Extraction Methods Based on Machine Learning Methods for Classification Radiological Images. Computational Intelligence and Neuroscience, 2022, 2022, 1-13.	1.7	2
1123	An effective detection of COVIDâ€19 using adaptive dualâ€stage horse herd bidirectional <scp>long shortâ€term memory</scp> framework. International Journal of Imaging Systems and Technology, 0, , .	4.1	3
1124	Machine Learning Approach for Diagnosis of Heart Diseases. , 2022, , .		9
1125	2dCNN-BiCuDNNLSTM: Hybrid Deep-Learning-Based Approach for Classification of COVID-19 X-ray Images. Sustainability, 2022, 14, 6785.	3.2	3
1126	Deep Learning Applied to COVID-19 Detection in X-Ray Images. Advances in Medical Diagnosis, Treatment, and Care, 2022, , 202-247.	0.1	0
1127	Automatic Detection of Severely and Mildly Infected COVID-19 Patients with Supervised Machine Learning Models. Irbm, 2023, 44, 100725.	5.6	24
1128	A novel multi-scale based deep convolutional neural network for detecting COVID-19 from X-rays. Applied Soft Computing Journal, 2022, 125, 109109.	7.2	24
1130	Temperature Monitoring and Application of Machine Learning in Radiology for COVID-19 Pandemic. , 2021, , .		0
1133	Coronavirus. , 2022, , 109-117.		1
1135	Artificial Intelligence and Internet of Things (AI-IoT) Technologies in Response to COVID-19 Pandemic: A Systematic Review. IEEE Access, 2022, 10, 62613-62660.	4.2	14
1136	Applications of machine learning approaches to combat COVID-19: A survey. , 2022, , 263-287.		12
1137	A Review on Deep Learning Methods and CT Scan Approaches for Covid-19 Detection. , 2022, , .		1
1138	Automated Detection of COVID-19 Using Deep Learning Approaches with Paper-Based ECG Reports. Circuits, Systems, and Signal Processing, 2022, 41, 5535-5577.	2.0	12
1139	Deep Learning Methods to Reveal Important X-ray Features in COVID-19 Detection: Investigation of Explainability and Feature Reproducibility. Reports, 2022, 5, 20.	0.5	5
1140	The Pitfalls of Using Open Data to Develop Deep Learning Solutions for COVID-19 Detection in Chest X-Rays. Studies in Health Technology and Informatics, 2022, , .	0.3	1
1141	Improved Analysis of COVID-19 Influenced Pneumonia from the Chest X-Rays Using Fine-Tuned Residual Networks. Computational Intelligence and Neuroscience, 2022, 2022, 1-13.	1.7	6

#	Article	IF	Citations
1142	‹scp›CoviDetNet‹/scp›: A new ‹scp›COVID‹/scp›â€19 diagnostic system based on deep features of chest xâ€ray. International Journal of Imaging Systems and Technology, 2022, 32, 1447-1463.	4.1	3
1143	A Novel CovidDetNet Deep Learning Model for Effective COVID-19 Infection Detection Using Chest Radiograph Images. Applied Sciences (Switzerland), 2022, 12, 6269.	2.5	24
1144	A Deep Learning Model for Diagnosing COVID-19 and Pneumonia through X-ray. Current Medical Imaging, 2023, 19, .	0.8	0
1145	CXGNet: A tri-phase chest X-ray image classification for COVID-19 diagnosis using deep CNN with enhanced grey-wolf optimizer. Biomedical Signal Processing and Control, 2022, 77, 103860.	5.7	22
1146	COVID-19 Along with Other Chest Infection Diagnoses Using Faster R-CNN and Generative Adversarial Network. ACM Transactions on Spatial Algorithms and Systems, 2022, 8, 1-21.	1.4	5
1147	An Explainable AI Approach for the Rapid Diagnosis of COVID-19 Using Ensemble Learning Algorithms. Frontiers in Public Health, 0, 10, .	2.7	10
1148	Artificial intelligence in identifying COVID-19 patients based on inflammatory parameters. , 2022, , .		1
1149	Value of quantitative airspace disease measured on chest CT and chest radiography at initial diagnosis compared to clinical variables for prediction of severe COVID-19. Journal of Medical Imaging, 2022, 9, .	1.5	1
1150	CoviXNet: A novel and efficient deep learning model for detection of COVID-19 using chest X-Ray images. Biomedical Signal Processing and Control, 2022, 78, 103848.	5.7	30
1151	A fast lightweight network for the discrimination of COVID-19 and pulmonary diseases. Biomedical Signal Processing and Control, 2022, 78, 103925.	5.7	4
1152	Implementation ofâSMOTE andâVGG-16 forâCOVID-19 Radiography. Lecture Notes in Networks and Systems, 2022, , 511-518.	0.7	1
1154	Application of machine learning and medical imaging in the detection of COVID-19 patients: A review article. Journal of Family Medicine and Primary Care, 2022, 11, 2277.	0.9	1
1155	Deep Learning-Based COVID-19 Detection Using Lung Parenchyma CT Scans. Lecture Notes in Networks and Systems, 2022, , 261-275.	0.7	1
1157	ML and DL Architectures Comparisons for the Classification of COVID-19 Using Chest X-Ray Images. Studies in Big Data, 2022, , 433-457.	1.1	0
1158	Comparison of Different Convolutional Neural Network Initialization Methods for COVID-19 Detection from X-Ray Images. SSRN Electronic Journal, 0, , .	0.4	0
1159	Computer Vision-Based Prognostic Modelling of COVID-19 from Medical Imaging. Studies in Big Data, 2022, , 25-45.	1.1	0
1163	Efficient Diagnosis of Covid19 by Employing Deep Transfer Learning on Pretrained VGG and ResidualNet Architectures. , 2022, , .		0
1164	FPGA-Based Deep Learning Models for Analysing Corona Using Chest X-Ray Images. Mobile Information Systems, 2022, 2022, 1-14.	0.6	14

#	Article	IF	Citations
1165	Artificial Intelligence Based Detection And Classification of Diseases using Chest X-Ray Images. International Journal of Advanced Research in Science, Communication and Technology, 0, , 280-286.	0.0	0
1166	Data Mining and RBF Neural Networks to Analyze Data from COVID-19 Patients and Predict New Cases Based on Symptoms. , 2022, , .		1
1167	Epidemiological challenges in pandemic coronavirus disease (<scp>COVID</scp>â€19): Role of artificial intelligence. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2022, 12, .	6.8	3
1168	A systematic comparison of transfer learning models for COVID-19 prediction. Intelligent Decision Technologies, 2022, , 1-18.	0.9	0
1169	Artificial Intelligence Based Model for Covid-19 Detection by Analyzing X-Ray Images: Researches, challenges and Future Directions. , 2022, , .		0
1170	Covid-EnsembleNet: An Ensemble Based Approach for Detecting Covid-19 by utilising Chest X-ray Images. , 2022, , .		10
1171	Classification of COVID-19 in Chest X-ray Images Using Fusion of Deep Features and LightGBM. , 2022, , .		13
1172	<scp>LiteCovidNet</scp>: A lightweight deep neural network model for detection of <scp>COVID</scp>â€19 using Xâ€ray images. International Journal of Imaging Systems and Technology, 2022, 32, 1464-1480.	4.1	9
1173	FWLICM-Deep Learning: Fuzzy Weighted Local Information C-Means Clustering-Based Lung Lobe Segmentation with Deep Learning for COVID-19 Detection. Journal of Digital Imaging, 2022, 35, 1463-1478.	2.9	2
1174	One-class Classification for Identifying COVID-19 in X-Ray Images. Programming and Computer Software, 2022, 48, 235-242.	0.9	0
1175	Trust-Augmented Deep Reinforcement Learning for Federated Learning Client Selection. Information Systems Frontiers, 0, , .	6.4	14
1176	Supervised Learning Models for the Preliminary Detection of COVID-19 in Patients Using Demographic and Epidemiological Parameters. Information (Switzerland), 2022, 13, 330.	2.9	19
1177	A Deep Learning and Handcrafted Based Computationally Intelligent Technique for Effective COVID-19 Detection from X-ray/CT-scan Imaging. Journal of Grid Computing, 2022, 20, .	3.9	6
1178	Chest X-ray analysis empowered with deep learning: A systematic review. Applied Soft Computing Journal, 2022, 126, 109319.	7.2	25
1179	Computational Intelligence-Based Method for Automated Identification of COVID-19 and Pneumonia by Utilizing CXR Scans. Computational Intelligence and Neuroscience, 2022, 2022, 1-12.	1.7	2
1180	Covidâ€19 detection from radiographs by featureâ€reinforced ensemble learning. Concurrency Computation Practice and Experience, 2022, 34, .	2.2	9
1181	A deep learning approach with Bayesian optimized Kernel support vector machine for Covid-19 diagnosis. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2023, 11, 623-637.	1.9	1
1182	Feature-level ensemble approach for COVID-19 detection using chest X-ray images. PLoS ONE, 2022, 17, e0268430.	2.5	6

#	Article	IF	Citations
1183	Towards Automated Multiclass Severity Prediction Approach for COVID-19 Infections Based on Combinations of Clinical Data. Mobile Information Systems, 2022, 2022, 1-8.	0.6	3
1184	PCA-Based Incremental Extreme Learning Machine (PCA-IELM) for COVID-19 Patient Diagnosis Using Chest X-Ray Images. Computational Intelligence and Neuroscience, 2022, 2022, 1-17.	1.7	2
1185	COVID-19 chest X-ray detection through blending ensemble of CNN snapshots. Biomedical Signal Processing and Control, 2022, 78, 104000.	5.7	13
1187	A Novel-based Swin Transfer Based Diagnosis of COVID-19 Patients. Intelligent Automation and Soft Computing, 2023, 35, 163-180.	2.1	2
1188	A Transfer Learning Based Approach for COVID-19 Detection Using Inception-v4 Model. Intelligent Automation and Soft Computing, 2023, 35, 1721-1736.	2.1	3
1189	The Fault in Our Data Stars: Studying Mitigation Techniques against Faulty Training Data in Machine Learning Applications. , 2022, , .		5
1190	Deep convolutional neural networks for detection of abnormalities in chest X-rays trained on the very large dataset. Signal, Image and Video Processing, 2023, 17, 1035-1041.	2.7	6
1192	A Review Study of the Deep Learning Techniques used for the Classification of Chest Radiological Images for COVID-19 Diagnosis. International Journal of Information Management Data Insights, 2022, 2, 100100.	9.7	3
1193	Ensembling of Efficient Deep Convolutional Networks and Machine Learning Algorithms for Resource Effective Detection of Tuberculosis Using Thoracic (Chest) Radiography. IEEE Access, 2022, 10, 85442-85458.	4.2	12
1194	Automation of Feature Extraction from Panoramic Radiography Mandibular Landmark Point Parameters. SSRN Electronic Journal, 0, , .	0.4	0
1195	Covid Prediction and Covid Detection via X-Ray Images. , 2022, , .		1
1196	Evaluating the Performance of State-of-the-art Methods and Classifying Covid-19 Infected Tissues. , 2022, , .		0
1197	Usage of ML and IoT in Healthcare Diagnose During Pandemic. , 2022, , .		1
1198	CheXVGG: A deep neural network for multi-disease classification of chest-xray images using transfer learning. , 2022, , .		0
1199	Emphasize of Deep CNN for Chest Radiology Images in the detection of COVID. , 2022, , .		3
1200	AI Driven Cough Voice-Based COVID Detection Framework Using Spectrographic Imaging: An Improved Technology. , 2022, , .		2
1201	Automatic COVID-19 Diagnostic and Classification Intelligent System (ACDCIS). , 2022, , .		1
1202	Review on Automatic Covid-19 Detection from Chest CT Images using Artificial Intelligence. , 2022, , .		0

#	Article	IF	Citations
1203	A Simplified Convolutional Neural Network Design for COVID-19 Classification on Chest X-ray Images. , 2022, , .		3
1204	Detection of pneumonia using convolutional neural networks and deep learning. Biocybernetics and Biomedical Engineering, 2022, 42, 1012-1022.	5.9	26
1205	Detection of <scp>COVID</scp>â€19 from chest Xâ€ray images: Boosting the performance with convolutional neural network and transfer learning. Expert Systems, 2023, 40, .	4.5	10
1206	Delaunay triangulation based intelligent system for the diagnosis of covid from the low radiation CXR images. Journal of Ambient Intelligence and Humanized Computing, 0, , .	4.9	0
1207	Detecting COVID-19 patients via MLES-Net deep learning models from X-Ray images. BMC Medical Imaging, 2022, 22, .	2.7	3
1208	Deep Learning Models for the Diagnosis and Screening of COVID-19: A Systematic Review. SN Computer Science, 2022, 3, .	3.6	8
1209	Ensemble of Deep Neural Networks based on Condorcetâ€™s Jury Theorem for screening Covid-19 and Pneumonia from radiograph images. Computers in Biology and Medicine, 2022, 149, 105979.	7.0	8
1210	An Effective Approach for Automated Lung Node Detection using CT Scans. Journal of Biomedical Physics and Engineering, 2022, 12, .	0.9	2
1211	COVID-19 diagnosis using deep learning neural networks applied to CT images. Frontiers in Artificial Intelligence, 0, 5, .	3.4	6
1212	CovMnetâ€“Deep Learning Model for classifying Coronavirus (COVID-19). Health and Technology, 2022, 12, 1009-1024.	3.6	15
1213	An evaluation of lightweight deep learning techniques in medical imaging for high precision COVID-19 diagnostics. Healthcare Analytics, 2022, 2, 100096.	4.3	5
1214	Multiâ€texture features and optimized DeepNet for COVIDâ€19 detection using chest xâ€ray images. Concurrency Computation Practice and Experience, 0, , .	2.2	2
1215	Ensemble of deep capsule neural networks: an application to pediatric pneumonia prediction. Physical and Engineering Sciences in Medicine, 2022, 45, 949-959.	2.4	5
1216	Deep Learning Based COVID-19 Detection Using Medical Images: Is Insufficient Data Handled Well?. Current Medical Imaging, 2023, 19, .	0.8	3
1217	Image enhancement techniques on deep learning approaches for automated diagnosis of COVID-19 features using CXR images. Multimedia Tools and Applications, 2022, 81, 42649-42690.	3.9	13
1218	COVID-19 diagnosis using chest CT scans and deep convolutional neural networks evolved by IP-based sine-cosine algorithm. Medical and Biological Engineering and Computing, 2022, 60, 2931-2949.	2.8	9
1219	Automatic segmentation of COVID-19 from computed tomography images using modified U-Net model-based majority voting approach. Neural Computing and Applications, 2022, 34, 21927-21938.	5.6	1
1220	Optimal COVID-19 therapeutic candidate discovery using the CANDO platform. Frontiers in Pharmacology, 0, 13, .	3.5	4

#	Article	IF	Citations
1222	A pre-trained convolutional neural network with optimized capsule networks for chest X-rays COVID-19 diagnosis. Cluster Computing, 2023, 26, 1389-1403.	5.0	9
1223	DKPNet41: Directed knight pattern network-based cough sound classification model for automatic disease diagnosis. Medical Engineering and Physics, 2022, 110, 103870.	1.7	7
1224	A new approach to COVID-19 detection from x-ray images using angle transformation with GoogleNet and LSTM. Measurement Science and Technology, 2022, 33, 124011.	2.6	9
1225	Diagnosis Methods for COVID-19: A Systematic Review. Micromachines, 2022, 13, 1349.	2.9	18
1226	SEL-COVIDNET: An intelligent application for the diagnosis of COVID-19 from chest X-rays and CT-scans. Informatics in Medicine Unlocked, 2022, 32, 101059.	3.4	8
1227	Database and AI Diagnostic Tools Improve Understanding of Lung Damage, Correlation of Pulmonary Disease and Brain Damage in COVID-19. Sensors, 2022, 22, 6312.	3.8	5
1228	LMNet: Lightweight multi-scale convolutional neural network architecture for COVID-19 detection in IoMT environment. Computers and Electrical Engineering, 2022, 103, 108325.	4.8	3
1229	Improved COVID-19 detection with chest x-ray images using deep learning. Multimedia Tools and Applications, 2022, 81, 37657-37680.	3.9	16
1230	COVID-19 Diagnosis and Classification Using Radiological Imaging and Deep Learning Techniques: A Comparative Study. Diagnostics, 2022, 12, 1880.	2.6	7
1231	DAFLNet: Dual Asymmetric Feature Learning Network for COVID-19 Disease Diagnosis in X-Rays. Computational and Mathematical Methods in Medicine, 2022, 2022, 1-13.	1.3	1
1233	Scalable Federated-Learning and Internet-of-Things enabled architecture for Chest Computer Tomography image classification. Computers and Electrical Engineering, 2022, 102, 108266.	4.8	6
1234	Latent Space Representational Learning of Deep Features for Acute Lymphoblastic Leukemia Diagnosis. Computer Systems Science and Engineering, 2023, 45, 361-376.	2.4	5
1235	Uncertainty-driven ensembles of multi-scale deep architectures for image classification. Information Fusion, 2023, 89, 53-65.	19.1	19
1236	Deep learning: A taxonomy of modern weapons to combat Covidâ€19 similar pandemics in smart cities. Concurrency Computation Practice and Experience, 2022, 34, .	2.2	1
1237	Development of a core feature identification application based on the Faster R-CNN algorithm. Engineering Applications of Artificial Intelligence, 2022, 115, 105200.	8.1	10
1238	A comprehensive review of COVID-19 detection techniques: From laboratory systems to wearable devices. Computers in Biology and Medicine, 2022, 149, 106070.	7.0	10
1239	Ensemble multimodal deep learning for early diagnosis and accurate classification of COVID-19. Computers and Electrical Engineering, 2022, 103, 108396.	4.8	13
1240	Fine Tuning CNN for COVID-19 Patterns Detection From Chest Radiographs. International Journal of Reliable and Quality E-Healthcare, 2022, 11, 1-15.	1.1	0

#	Article	IF	Citations
1241	Handling class imbalance in COVID-19 chest X-ray images classification: Using SMOTE and weighted loss. Applied Soft Computing Journal, 2022, 129, 109588.	7.2	18
1242	SUFEMO: A superpixel based fuzzy image segmentation method for COVID-19 radiological image elucidation. Applied Soft Computing Journal, 2022, 129, 109625.	7.2	6
1243	AC-CovidNet: Attention Guided Contrastive CNN forÂRecognition ofÂCovid-19 inÂChest X-Ray Images. Communications in Computer and Information Science, 2022, , 71-82.	0.5	6
1244	Automation of Feature Extraction from Panoramic Radiography Mandibular Landmark Point Parameters. SSRN Electronic Journal, 0, , .	0.4	0
1245	Medical Image Analysis Using Machine Learning andÂDeep Learning: A Comprehensive Review. Studies in Rhythm Engineering, 2022, , 147-161.	0.2	0
1246	Thorax Disease Classification Based on Pyramidal Convolution Shuffle Attention Neural Network. IEEE Access, 2022, 10, 85571-85581.	4.2	3
1247	A Novel COVID-19 Detection Model Based on DCGAN and Deep Transfer Learning. Procedia Computer Science, 2022, 204, 65-72.	2.0	6
1248	MLPA-Net: Multi-Class Lightweight Model for COVID-19 X-Ray Images Based on Multi-Channel Attention Mechanism and Multilayer Perceptron. SSRN Electronic Journal, 0, , .	0.4	0
1249	Electrochemical Biosensing and Deep Learning-Based Approaches in the Diagnosis of COVID-19: A Review. IEEE Access, 2022, 10, 98633-98648.	4.2	6
1250	COVID-DeepNet: Deep Convolutional Neural Network Architecture Designed for Early Prognosis of COVID-19 Using Post-anterior View of Chest X-Rays. Algorithms for Intelligent Systems, 2022, , 57-70.	0.6	0
1251	Web Application Based on Deep Learning for Detecting COVID-19 Using Chest X-Ray Images. TELe-Health, 2022, , 283-294.	0.4	0
1252	Using Open-Source Software for Business, Urban, and Other Applications of Deep Neural Networks, Machine Learning, and Data Analytics Tools. International Journal of Artificial Intelligence and Machine Learning, 2022, 12, 1-28.	0.4	1
1253	A Comprehensive Review of Deep Learning-Based Methods for COVID-19 Detection Using Chest X-Ray Images. IEEE Access, 2022, 10, 100763-100785.	4.2	8
1254	CNGOD-An improved convolution neural network with grasshopper optimization for detection of COVID-19. Mathematical Biosciences and Engineering, 2022, 19, 12518-12531.	1.9	8
1255	Dental-YOLO: Alveolar Bone and Mandibular Canal Detection on Cone Beam Computed Tomography Images for Dental Implant Planning. IEEE Access, 2022, 10, 101483-101494.	4.2	13
1256	ADGAN: Attribute-Driven Generative Adversarial Network for Synthesis and Multiclass Classification of Pulmonary Nodules. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 2484-2495.	11.3	3
1257	Detection and classification of lung diseases using deep learning. AIP Conference Proceedings, 2022, , .	0.4	2
1258	Artificial intelligence approaches on X-ray-oriented images process for early detection of COVID-19. Journal of Medical Signals and Sensors, 2022, 12, 233.	1.0	0

#	Article	IF	Citations
1259	Calibration of Medical Imaging Classification Systems with Weight Scaling. Lecture Notes in Computer Science, 2022, , 642-651.	1.3	2
1260	Robotics and AI in Healthcare: A Systematic Review. Studies in Computational Intelligence, 2022, , 319-343.	0.9	0
1261	Risk assessment in COVID-19 patients: A multiclass classification approach. Informatics in Medicine Unlocked, 2022, 32, 101023.	3.4	0
1262	A Survey on AI-Enabled Pandemic Prediction and Prevention: What We Can Learn from COVID. Advanced Sciences and Technologies for Security Applications, 2022, , 133-145.	0.5	0
1263	A Study On Diagnosis Of Diabetes Mellitus Based On Tongue Images With Various Methods. , 2022, , .		1
1264	Supervised Machine Learning Approach to COVID-19 Detection Based on Clinical Data. Medical Journal of the Islamic Republic of Iran, 0, , .	0.9	2
1265	Temporal Context Matters: Enhancing Single Image Prediction with Disease Progression Representations. , 2022, , .		6
1266	Comparison of Texture Feature Extraction Method for COVID-19 Detection With Deep Learning. , 2022, , .		1
1267	Smart Health Care System for Early Detection of COVID-19 Using X-ray Scans. , 2022, , .		4
1268	A Deep Learning Approach for Recognizing Covid-19 from Chest X-ray using Modified CNN-BiLSTM with M-SVM. , 2022, , .		1
1269	Textural features for automatic detection and categorisation of pneumonia in chest X-ray images. , 2022, , .		1
1270	Contrast Enhancement based CNN model for Lung Cancer Classification and Prediction using Chest X-ray Images. , 2022, , .		1
1271	Covid-19 Detection using Chest X-Rays with Image based Deep Learning. , 2022, , .		1
1272	A Novel Method for COVID-19 Detection Based on DCNNs and Hierarchical Structure. Computational and Mathematical Methods in Medicine, 2022, 2022, 1-12.	1.3	0
1273	Rapid and Accurate Diagnosis of COVID-19 Cases from Chest X-ray Images through an Optimized Features Extraction Approach. Electronics (Switzerland), 2022, 11, 2682.	3.1	2
1274	DMs-MAFM+EfficientNet: a hybrid model for predicting dysthyroid optic neuropathy. Medical and Biological Engineering and Computing, 2022, 60, 3217-3230.	2.8	5
1275	Application of explainable artificial intelligence for healthcare: A systematic review of the last decade (2011–2022). Computer Methods and Programs in Biomedicine, 2022, 226, 107161.	4.7	168
1276	A deep learning approach for classification of <scp>COVID</scp> and pneumonia using <scp>DenseNet</scp>‐201. International Journal of Imaging Systems and Technology, 2023, 33, 18-38.	4.1	15

#	ARTICLE	IF	CITATIONS
1277	Böbrek Hastalıkları için Açıklanabilir Yapay Zeka Destekli Derin Öğrenmeye Dayalı Bir Tespit ve Tahmin Modeli. European Journal of Science and Technology, 0, , .	0.5	5
1278	Numerical solving for generalized Black-Scholes-Merton model with neural finite element method. , 2022, 131, 103757.		3
1279	Klasifikasi Citra X-Ray Covid-19 Menggunakan Three-layered CNN Model. Techné Jurnal Ilmiah Elektroteknika, 2022, 21, 155-168.	0.1	0
1280	NSCGCN: A novel deep GCN model to diagnosis COVID-19. Computers in Biology and Medicine, 2022, 150, 106151.	7.0	3
1281	A COVID-19 X-ray image classification model based on an enhanced convolutional neural network and hill climbing algorithms. Multimedia Tools and Applications, 2023, 82, 14219-14237.	3.9	5
1282	A multi-class classification framework for disease screening and disease diagnosis of COVID-19 from chest X-ray images. Multimedia Tools and Applications, 2023, 82, 14367-14401.	3.9	3
1283	An Overview of Applications of Machine Learning During COVID-19. Lecture Notes in Networks and Systems, 2023, , 73-81.	0.7	1
1284	COVID-19 Semantic Pneumonia Segmentation and Classification Using Artificial Intelligence. Contrast Media and Molecular Imaging, 2022, 2022, 1-13.	0.8	0
1285	Review on the Application of Big Data Algorithms to Understand a Pandemic Virus. Advances in Computational Intelligence and Robotics Book Series, 2022, , 211-233.	0.4	0
1286	LW†CovidNet: Automatic covid†19 lung infection detection from chest X†ray images. IET Image Processing, 2023, 17, 362-374.	2.5	3
1287	RED-CNN: The Multi-Classification Network for Pulmonary Diseases. Electronics (Switzerland), 2022, 11, 2896.	3.1	1
1288	Diagnosis of COVID-19 from X-ray images using deep learning techniques. Cogent Engineering, 2022, 9, .	2.2	1
1289	Ensemble Deep Convolution Neural Network for Sars-Cov-V2 Detection. International Journal of Electrical & Electronics Research, 2022, 10, 481-486.	1.6	2
1290	A novel e-healthcare diagnosing system for COVID-19 via whale optimization algorithm. Journal of Experimental and Theoretical Artificial Intelligence, 0, , 1-19.	2.8	2
1291	Contemporary Study on Deep Neural Networks to Diagnose COVID-19 Using Digital Posteroanterior X-ray Images. Electronics (Switzerland), 2022, 11, 3113.	3.1	3
1292	Applications of artificial neural network to solve the nonlinear COVID-19 mathematical model based on the dynamics of SIQ. Journal of Taibah University for Science, 2022, 16, 874-884.	2.5	15
1293	Application of Deep Learning Techniques in Diagnosis of Covid-19 (Coronavirus): A Systematic Review. Neural Processing Letters, 2023, 55, 3551-3603.	3.2	51
1294	FirecovNet: A Novel, Lightweight, and Fast Deep Learning-Based Network for Detecting COVID-19 Patients Using Chest X-rays. Electronics (Switzerland), 2022, 11, 3068.	3.1	0

#	Article	IF	Citations
1295	Coagulation parameters predict COVID-19-related thrombosis in a neural network with a positive predictive value of 98%. Frontiers in Immunology, 0, 13, .	4.8	2
1296	COVID-19 Detection on Chest X-ray and CT Scan: A Review of the Top-100 Most Cited Papers. Sensors, 2022, 22, 7303.	3.8	5
1297	Improving Pneumonia Classification and Lesion Detection Using Spatial Attention Superposition and Multilayer Feature Fusion. Electronics (Switzerland), 2022, 11, 3102.	3.1	2
1298	A Deep Learning based Solution (Covi-DeteCT) Amidst COVID-19. Current Medical Imaging, 2022, 18, .	0.8	0
1299	Dynamic feature learning for COVID-19 segmentation and classification. Computers in Biology and Medicine, 2022, 150, 106136.	7.0	2
1300	Uses And Challenges of Deep Learning Models for Covid-19 Diagnosis and Prediction. , 2022, , 67-84.		0
1301	UncertaintyFuseNet: Robust uncertainty-aware hierarchical feature fusion model with Ensemble Monte Carlo Dropout for COVID-19 detection. Information Fusion, 2023, 90, 364-381.	19.1	40
1303	Chest X ray and cough sample based deep learning framework for accurate diagnosis of COVID-19. Computers and Electrical Engineering, 2022, 103, 108391.	4.8	7
1304	Deep learning models for COVID-19 chest x-ray classification: Preventing shortcut learning using feature disentanglement. PLoS ONE, 2022, 17, e0274098.	2.5	3
1305	Deep CNN Model Embedded with Inception Layers for COVID-19 Classification. Smart Innovation, Systems and Technologies, 2023, , 441-449.	0.6	0
1306	Predicting pattern of coronavirus using X-ray and CT scan images. Network Modeling Analysis in Health Informatics and Bioinformatics, 2022, 11, .	2.1	3
1307	ADL-CDF: A Deep Learning Framework for COVID-19 Detection from CT Scans Towards an Automated Clinical Decision Support System. Arabian Journal for Science and Engineering, 2023, 48, 9661-9673.	3.0	2
1308	An implementation of a hybrid method based on machine learning to identify biomarkers in the Covid-19 diagnosis using DNA sequences. Chemometrics and Intelligent Laboratory Systems, 2022, 230, 104680.	3.5	5
1309	SVD-CLAHE boosting and balanced loss function for Covid-19 detection from an imbalanced Chest X-Ray dataset. Computers in Biology and Medicine, 2022, 150, 106092.	7.0	8
1310	A self-supervised COVID-19 CT recognition system with multiple regularizations. Computers in Biology and Medicine, 2022, 150, 106149.	7.0	1
1311	Deep viewing for the identification of Covid-19 infection status from chest X-Ray image using CNN based architecture. Intelligent Systems With Applications, 2022, 16, 200130.	3.0	10
1312	COVID-CNNnet: Convolutional Neural Network for Coronavirus Detection. International Journal on Data Science, 2021, 2, 9-18.	0.3	0
1313	Lightweight Method for the Rapid Diagnosis of Coronavirus Disease 2019 from Chest X-ray Images using Deep Learning Technique. , 2021, , .		2

#	Article	IF	Citations
1314	A hybrid system for detection and diagnosis of novel corona virus. AIP Conference Proceedings, 2022, , .	0.4	0
1315	A review of covid-19 detection and diagnosis methods based on deep learning. AIP Conference Proceedings, 2022, , .	0.4	0
1316	Detection of COVID-19 Using Denoising Autoencoders and Gabor Filters. Communications in Computer and Information Science, 2022, , 252-266.	0.5	1
1317	Performance Comparison of Different Convolutional Neural Network Models for the Detection of COVID-19. Lecture Notes on Data Engineering and Communications Technologies, 2022, , 413-425.	0.7	0
1318	EMD and Horizontal Visibility Graph Based Disease Tagging for Covid-Positive Chest Radiographs. Springer Series on Bio- and Neurosystems, 2022, , 273-303.	0.2	0
1319	Deep Learning Medical Solutions: A short review on COVID-19 Detection Using Chest X-ray Image with CNN Multiple Architectures. , 2022, , .		0
1320	A Hybrid Approach for predicting COVID19 using Multiple Convolution Neural Networks and Self Attention Maps. , 2022, , .		0
1321	Clustering-Based Recommendation System for Preliminary Disease Detection. International Journal of E-Health and Medical Communications, 2022, 13, 1-14.	1.6	0
1322	Moving Vehicle Number Plate Detection using Hybrid Deep Convolutional and Recurrent Neural Network Algorithm. , 2022, , .		0
1323	A Systematic Survey on COVID 19 Detection and Diagnosis by Utilizing Deep Learning Techniques and Modalities of Radiology. , 2022, , .		0
1324	Comprehensive Survey of Machine Learning Systems for COVID-19 Detection. Journal of Imaging, 2022, 8, 267.	3.0	8
1325	Detection of COVID-19 Infection Using Chest X-Ray Images. Advances in Medical Technologies and Clinical Practice Book Series, 2022, , 83-105.	0.3	0
1326	Learning effective embedding for automated COVID-19 prediction from chest X-ray images. Multimedia Systems, 2023, 29, 739-751.	4.7	1
1327	Deploying deep learning models on unseen medical imaging using adversarial domain adaptation. PLoS ONE, 2022, 17, e0273262.	2.5	2
1328	A review about COVID-19 in the MENA region: environmental concerns and machine learning applications. Environmental Science and Pollution Research, 2022, 29, 82709-82728.	5.3	2
1329	Artificial Intelligence and Deep Learning Assisted Rapid Diagnosis of COVID-19 from Chest Radiographical Images: A Survey. Contrast Media and Molecular Imaging, 2022, 2022, 1-19.	0.8	2
1330	A novel abnormality annotation database for COVID-19 affected frontal lung X-rays. PLoS ONE, 2022, 17, e0271931.	2.5	3
1331	Evaluation and Optimization of Biomedical Image-Based Deep Convolutional Neural Network Model for COVID-19 Status Classification. Applied Sciences (Switzerland), 2022, 12, 10787.	2.5	1

#	Article	IF	Citations
1332	Radiomics-Based Detection of COVID-19 from Chest X-ray Using Interpretable Soft Label-Driven TSK Fuzzy Classifier. Diagnostics, 2022, 12, 2613.	2.6	4
1333	COVID-19 CXR Classification: Applying Domain Extension Transfer Learning and Deep Learning. Applied Sciences (Switzerland), 2022, 12, 10715.	2.5	0
1334	An Intelligent Sensor Based Decision Support System for Diagnosing Pulmonary Ailment through Standardized Chest X-ray Scans. Sensors, 2022, 22, 7474.	3.8	4
1335	CovidViT: a novel neural network with self-attention mechanism to detect Covid-19 through X-ray images. International Journal of Machine Learning and Cybernetics, 2023, 14, 973-987.	3.6	9
1337	COVID-AleXception: A Deep Learning Model Based on a Deep Feature Concatenation Approach for the Detection of COVID-19 from Chest X-ray Images. Healthcare (Switzerland), 2022, 10, 2072.	2.0	9
1338	nn-TransUNet: An Automatic Deep Learning Pipeline for Heart MRI Segmentation. Life, 2022, 12, 1570.	2.4	6
1339	Deep Learning-Assisted Efficient Staging of SARS-CoV-2 Lesions Using Lung CT Slices. Mathematical Problems in Engineering, 2022, 2022, 1-12.	1.1	1
1340	Classification and Detection of COVID-19 and Other Chest-Related Diseases Using Transfer Learning. Sensors, 2022, 22, 7977.	3.8	1
1341	Research on COVID-19 pneumonia diagnosis based on chest x-ray (CXR) images using transformer and CNN. , 2022, , .		0
1342	Towards smart diagnostic methods for COVID-19: Review of deep learning for medical imaging. , 2022, 3-4, 100008.		1
1343	SARS-CoV-2 Morphometry Analysis and Prediction of Real Virus Levels Based on Full Recurrent Neural Network Using TEM Images. Viruses, 2022, 14, 2386.	3.3	8
1344	A CNN-transformer fusion network for COVID-19 CXR image classification. PLoS ONE, 2022, 17, e0276758.	2.5	3
1345	COVID-19 Detection from Chest X-rays Using Trained Output Based Transfer Learning Approach. Neural Processing Letters, 2023, 55, 2405-2428.	3.2	8
1346	EVAE-Net: An Ensemble Variational Autoencoder Deep Learning Network for COVID-19 Classification Based on Chest X-ray Images. Diagnostics, 2022, 12, 2569.	2.6	8
1347	Improved deep convolutional neural networks using chimp optimization algorithm for Covid19 diagnosis from the X-ray images. Expert Systems With Applications, 2023, 213, 119206.	7.6	28
1348	A novel deep learning-based method for COVID-19 pneumonia detection from CT images. BMC Medical Informatics and Decision Making, 2022, 22, .	3.0	5
1349	Federated learning based Covidâ€19 detection. Expert Systems, 2023, 40, .	4.5	16
1350	COVIDâ€19 detection based on <scp>preâ€trained</scp> deep networks and <scp>LSTM</scp> model using Xâ€ray images enhanced contrast with artificial bee colony algorithm. Expert Systems, 2023, 40, .	4.5	1

#	Article	IF	Citations
1351	A robust semantic lung segmentation study for CNN-based COVID-19 diagnosis. Chemometrics and Intelligent Laboratory Systems, 2022, 231, 104695.	3.5	8
1352	BND-VGG-19: A deep learning algorithm for COVID-19 identification utilizing X-ray images. Knowledge-Based Systems, 2022, 258, 110040.	7.1	9
1353	Covid-19 Diagnosis Using a Deep Learning Ensemble Model with Chest X-Ray Images. Computer Systems Science and Engineering, 2023, 45, 1357-1373.	2.4	1
1354	Intelligent Firefly Algorithm Deep Transfer Learning Based COVID-19 Monitoring System. Computers, Materials and Continua, 2023, 74, 2889-2903.	1.9	2
1355	Recent artificial intelligence methods and coronaviruses. , 2023, , 353-380.		0
1356	A Hybrid Deep Fused Learning Approach to Segregate Infectious Diseases. Computers, Materials and Continua, 2023, 74, 4239-4259.	1.9	5
1357	DSAFF-Net: A Backbone Network Based on Mask R-CNN for Small Object Detection. Computers, Materials and Continua, 2023, 74, 3405-3419.	1.9	1
1358	Automated diagnosis of COVID-19 using radiological modalities and Artificial Intelligence functionalities: A retrospective study based on chest HRCT database. Biomedical Signal Processing and Control, 2023, 80, 104297.	5.7	5
1359	CXR-Net: A Multitask Deep Learning Network for Explainable and Accurate Diagnosis of COVID-19 Pneumonia From Chest X-Ray Images. IEEE Journal of Biomedical and Health Informatics, 2023, 27, 980-991.	6.3	3
1360	Artificial intelligence-assisted multistrategy image enhancement of chest X-rays for COVID-19 classification. Quantitative Imaging in Medicine and Surgery, 2023, 13, 394-416.	2.0	1
1361	Identification of COVID-19 from Chest CT Scan Using CNN as Feature Extractor and Voting Classifier. , 2022, , .		2
1362	Machine Learning Techniques For Public Health System: A Scientometric Review. , 2022, , .		0
1363	A Localisation Study of Deep Learning Models for Chest X-ray Image Classification. , 2022, , .		0
1364	Deep Transfer Learning approach for Classification of Chest Infections in Radiographic X-Ray Images. , 2022, , .		0
1365	Android App based on CNN for Covid-19 Detection using Chest X-ray Images. , 2022, , .		0
1366	Automatic detection of covid-19 using CNN model combined with Firefly algorithm. , 2022, , .		0
1367	Survey of Recent Applications of Artificial Intelligence for Detection and Analysis of COVID-19 and Other Infectious Diseases. International Journal of Artificial Intelligence and Machine Learning, 2022, 12, 1-30.	0.4	0
1368	Detection of COVID-19 Using Classification of an X-Ray Image Using a Local Binary Pattern and K-Nearest Neighbors. , 2022, , .		1

#	Article	IF	Citations
1369	Machine Learning and Deep Learning-Based Detection and Analysis of COVID-19 in Chest X-Ray Images. Lecture Notes in Networks and Systems, 2023, , 151-160.	0.7	0
1370	Generative adversarial network based data augmentation for CNN based detection of Covid-19. Scientific Reports, 2022, 12, .	3.3	10
1371	Deep Learning-Driven Medical Imaging Analysis for COVID-19 Detection. Lecture Notes in Networks and Systems, 2023, , 905-918.	0.7	0
1372	CCT: Lightweight compact convolutional transformer for lung disease CT image classification. Frontiers in Physiology, 0, 13, .	2.8	1
1373	COVIDX-LwNet: A Lightweight Network Ensemble Model for the Detection of COVID-19 Based on Chest X-ray Images. Sensors, 2022, 22, 8578.	3.8	1
1374	Multi-Stage Temporal Convolution Network for COVID-19 Variant Classification. Diagnostics, 2022, 12, 2736.	2.6	3
1375	Application of Deep Learning in Healthcare. Lecture Notes in Networks and Systems, 2023, , 131-140.	0.7	0
1376	Dissecting the molecular mechanism of cepharanthine against COVID-19, based on a network pharmacology strategy combined with RNA-sequencing analysis, molecular docking, and molecular dynamics simulation. Computers in Biology and Medicine, 2022, 151, 106298.	7.0	7
1377	Dual_Pachi: Attention-based dual path framework with intermediate second order-pooling for Covid-19 detection from chest X-ray images. Computers in Biology and Medicine, 2022, , 106324.	7.0	6
1378	Variational Autoencoder Based Imbalanced COVID-19 Detection Using Chest X-Ray Images. New Generation Computing, 2023, 41, 25-60.	3.3	5
1379	Accurate prediction of molecular properties and drug targets using a self-supervised image representation learning framework. Nature Machine Intelligence, 2022, 4, 1004-1016.	16.0	41
1380	COVID-19 detection on chest X-ray images using Homomorphic Transformation and VGG inspired deep convolutional neural network. Biocybernetics and Biomedical Engineering, 2023, 43, 1-16.	5.9	19
1381	Automatic detection of Covid-19 from chest X-ray and lung computed tomography images using deep neural networks and transfer learning. Applied Soft Computing Journal, 2023, 132, 109851.	7.2	19
1382	Diagnosis of COVID-19 Using Machine Learning and Deep Learning: A Review. , 2021, 17, 1403-1418.		0
1383	X-ray Based COVID-19 Classification Using Lightweight EfficientNet. Journal on Artificial Intelligence, 2022, 4, 167-187.	0.3	0
1384	Detection of Covid-19 and other pneumonia cases from CT and X-ray chest images using deep learning based on feature reuse residual block and depthwise dilated convolutions neural network. Applied Soft Computing Journal, 2023, 133, 109906.	7.2	24
1385	A lightweight network for COVID-19 detection in X-ray images. Methods, 2023, 209, 29-37.	3.8	1
1386	Rapid diagnosis of Covid-19 infections by a progressively growing GAN and CNN optimisation. Computer Methods and Programs in Biomedicine, 2023, 229, 107262.	4.7	19

#	ARTICLE	IF	CITATIONS
1387	Optimal Ensemble learning model for COVID-19 detection using chest X-ray images. Biomedical Signal Processing and Control, 2023, 81, 104392.	5.7	10
1388	PulDi-COVID: Chronic obstructive pulmonary (lung) diseases with COVID-19 classification using ensemble deep convolutional neural network from chest X-ray images to minimize severity and mortality rates. Biomedical Signal Processing and Control, 2023, 81, 104445.	5.7	42
1389	A Survey of COVID-19 Detection From Chest X-Rays Using Deep Learning Methods. International Journal of Data Warehousing and Mining, 2022, 18, 1-16.	0.6	0
1390	Deep-Learning-Based COVID-19 Detection: Challenges and Future Directions. IEEE Transactions on Artificial Intelligence, 2023, 4, 210-228.	4.7	0
1391	HRCT chest analysis for detection of pulmonary arterial hypertension in COVID-19 patients using convolutional neural networks. , 2022, , .		0
1392	SARS-CoV-2 Detection Using Chest X-Ray Images with Deep Learning Methods. , 2022, , .		0
1393	Automated Diagnostic Radiographs of COVID-19 Based on Deep Learning Method. , 2022, , .		0
1394	Ensemble Technique Coupled with Deep Transfer Learning Framework for Automatic Detection of Tuberculosis from Chest X-ray Radiographs. Healthcare (Switzerland), 2022, 10, 2335.	2.0	8
1395	Application of Machine Learning and Deep Learning Techniques for COVID-19 Screening Using Radiological Imaging: A Comprehensive Review. SN Computer Science, 2023, 4, .	3.6	6
1396	COVID-19 Diagnosis on Chest Radiograph Using Artificial Intelligence. Cureus, 2022, , .	0.5	1
1397	Deep Learning-Based Computer-Aided Diagnosis (CAD): Applications for Medical Image Datasets. Sensors, 2022, 22, 8999.	3.8	4
1398	A multistage multimodal deep learning model for disease severity assessment and early warnings of high-risk patients of COVID-19. Frontiers in Public Health, 0, 10, .	2.7	0
1399	Automated Classification of Lung Injury from X-ray Images using Deep Learning Network. , 2022, , .		0
1400	Analysis Of Covid-19 Using Chest X-Ray Images: An AI Based Prospective. , 2022, , .		0
1401	Automatic Diagnosis of Pneumonia and COVID-19 Using Convolutional Neural Networks and Transfer Learning. International Journal of Neural Networks and Advanced Applications, 2022, 9, 40-48.	0.0	0
1402	Chest X-Ray Image Analysis with ResNet50, SMOTE and SafeSMOTE. Studies in Computational Intelligence, 2023, , 191-202.	0.9	0
1403	Automated Lung-Related Pneumonia and COVID-19 Detection Based on Novel Feature Extraction Framework and Vision Transformer Approaches Using Chest X-ray Images. Bioengineering, 2022, 9, 709.	3.5	18
1404	ACSN: Attention capsule sampling network for diagnosing COVID-19 based on chest CT scans. Computers in Biology and Medicine, 2023, 153, 106338.	7.0	7

#	Article	IF	Citations
1405	Machine-Learning-Based COVID-19 Detection with Enhanced cGAN Technique Using X-ray Images. Electronics (Switzerland), 2022, 11, 3880.	3.1	2
1406	Empirical Evaluation of Deep Learning Models with Local Binary Pattern for COVID-19 Detection. Lecture Notes in Networks and Systems, 2023, , 421-431.	0.7	0
1407	Sensitive deep learning application on sleep stage scoring by using all PSG data. Neural Computing and Applications, 2023, 35, 7495-7508.	5.6	4
1408	Cloud-based COVID-19 disease prediction system from X-Ray images using convolutional neural network on smartphone. Multimedia Tools and Applications, 2023, 82, 29883-29912.	3.9	5
1409	Deep Learning Model for COVID-19-Infected Pneumonia Diagnosis Using Chest Radiography Images. BioMedInformatics, 2022, 2, 654-670.	2.0	11
1410	The Capacity of Artificial Intelligence in COVID-19 Response: A Review in Context of COVID-19 Screening and Diagnosis. Diagnostics, 2022, 12, 2943.	2.6	2
1411	Performance Comparison for COVID-19 Chest X-ray Images Classification based on Different CNNs. , 2022, 4, 58-65.		0
1412	How Machine Learning Applied in Covid-19 Prevention & Control. Journal of Physics: Conference Series, 2022, 2386, 012033.	0.4	1
1413	Empirical Study on Detecting COVID-19 in Chest X-ray Images Using Deep Learning-Based Methods. Current Signal Transduction Therapy, 2022, 18, .	0.5	0
1414	A Novel Master-Slave Architecture to Detect COVID-19 in Chest X-ray Image Sequences Using Transfer-Learning Techniques. Healthcare (Switzerland), 2022, 10, 2443.	2.0	0
1415	Prediction of COVID-19 Patientsâ€™ Survival by Deep Learning Approaches. Medical Journal of the Islamic Republic of Iran, 0, , .	0.9	1
1416	Deep Learning Techniques for COVID-19 Diagnosis and Prognosis Based on Radiological Imaging. ACM Computing Surveys, 2023, 55, 1-39.	23.0	6
1417	Knowledge, perceptions, and expectations of Artificial intelligence in radiography practice: A global radiography workforce survey. Journal of Medical Imaging and Radiation Sciences, 2023, 54, 104-116.	0.3	10
1418	A Review of COVID-19 Diagnostic Approaches in Computer Vision. Current Medical Imaging, 2022, 19, .	0.8	1
1419	A Lightweight CNN and Class Weight Balancing on Chest X-ray Images for COVID-19 Detection. Electronics (Switzerland), 2022, 11, 4008.	3.1	1
1420	COVID-19 detection based on self-supervised transfer learning using chest X-ray images. International Journal of Computer Assisted Radiology and Surgery, 2023, 18, 715-722.	2.8	7
1421	A Deep Batch Normalized Convolution Approach for Improving COVID-19 Detection from Chest X-ray Images. Pathogens, 2023, 12, 17.	2.8	11
1422	A novel deep neural network model based Xception and genetic algorithm for detection of COVID-19 from X-ray images. Annals of Operations Research, 2023, 328, 617-641.	4.1	9

#	Article	IF	Citations
1423	Detecting COVID-19 From Lung Computed Tomography Images: A Swarm Optimized Artificial Neural Network Approach. IEEE Access, 2023, 11, 12378-12393.	4.2	5
1424	Densely attention mechanism based network for COVID-19 detection in chest X-rays. Scientific Reports, 2023, 13, .	3.3	19
1425	A Survey of Deep Learning Techniques for the Analysis of COVID-19 and their usability for Detecting Omicron. Journal of Experimental and Theoretical Artificial Intelligence, 0, , 1-43.	2.8	20
1426	Computer-aided COVID-19 diagnosis: a possibility?. Journal of Experimental and Theoretical Artificial Intelligence, 0, , 1-19.	2.8	0
1427	Covid Analysis Prediction Using Densenet Method in Deep Learning. Lecture Notes in Electrical Engineering, 2023, , 263-270.	0.4	0
1428	Automated Detection of Covid-19 Waves with Computerized Tomography Scan Using Deep Learning. , 2023, , 49-67.		0
1429	Swin-textural: A novel textural features-based image classification model for COVID-19 detection on chest computed tomography. Informatics in Medicine Unlocked, 2023, 36, 101158.	3.4	7
1430	Identification of Asymptomatic COVID-19 Patients on Chest CT Images Using Transformer-Based or Convolutional Neural Networkâ€"Based Deep Learning Models. Journal of Digital Imaging, 2023, 36, 827-836.	2.9	3
1431	Coronavirus covid-19 detection by means of explainable deep learning. Scientific Reports, 2023, 13, .	3.3	15
1432	A MobileNet-based CNN model with a novel fine-tuning mechanism for COVID-19 infection detection. Soft Computing, 2023, 27, 5521-5535.	3.6	20
1433	A Holistic Approach to Identify and Classify COVID-19 from Chest Radiographs, ECG, and CT-Scan Images Using ShuffleNet Convolutional Neural Network. Diagnostics, 2023, 13, 162.	2.6	21
1434	Application of Fuzzy Deep Neural Networks for Covid 19 diagnosis through chest Radiographs. F1000Research, 0, 12, 60.	1.6	0
1435	Automated Pneumonia Based Lung Diseases Classification with Robust Technique Based on a Customized Deep Learning Approach. Diagnostics, 2023, 13, 260.	2.6	10
1436	COVID-19-The Role of Artificial Intelligence, Machine Learning, and Deep Learning: A Newfangled. Archives of Computational Methods in Engineering, 2023, 30, 2667-2682.	10.2	13
1437	The feasibility of using acoustic measures for predicting the Total Opacity Scores of chest computed tomography scans in patients with COVID-19. Clinical Linguistics and Phonetics, 2024, 38, 97-115.	0.9	1
1438	Lung Classification for COVID-19. EAI/Springer Innovations in Communication and Computing, 2023, , 57-72.	1.1	0
1439	Analysis of lung scan imaging using deep multiâ€task learning structure for Covidâ€19 disease. IET Image Processing, 2023, 17, 1534-1545.	2.5	3
1440	COVID-19 Diagnosis Using Transfer Learning Techniques and Applications on Chest X-Ray Images. Advances in Multimedia and Interactive Technologies Book Series, 2023, , 194-206.	0.2	0

#	Article	IF	Citations
1441	A fuzzy fine-tuned model for COVID-19 diagnosis. Computers in Biology and Medicine, 2023, 153, 106483.	7.0	3
1442	Utilisation of deep learning for COVID-19 diagnosis. Clinical Radiology, 2023, 78, 150-157.	1.1	51
1443	MTSS-AAE: Multi-task semi-supervised adversarial autoencoding for COVID-19 detection based on chest X-ray images. Expert Systems With Applications, 2023, 216, 119475.	7.6	18
1444	COVID-19 and Pneumonia Detection using Hybrid VGG-16 model using Chest X-rays. , 2022, , .		0
1445	Implementation of Deep Learning In Detection of Covid-19 In X-ray Images Using Raspberry Pi. , 2022, , .		0
1446	Applications of Artificial Intelligence in Medical Images Analysis. EAI/Springer Innovations in Communication and Computing, 2023, , 287-308.	1.1	0
1447	COVID Detection using Deep Learning. , 2022, , .		0
1448	Detection of COVID-19 using CNN's Deep Learning Method: Review. , 2022, , .		0
1449	An Ensemble Learning Model to Detect COVID-19 Pneumonia from Chest CT Scan. , 2022, , .		2
1450	RESNET-50, CNN and HNN Medical Image Registration Techniques For Covid-19, Pneumonia and Other Chest Ailments Detection. , 2022, , .		6
1451	Deployment of Breast Cancer Hybrid Net using Deep Learning. , 2022, , .		4
1452	Predictive Analysis on Multimodal Medicare Application. , 2022, , .		1
1453	Assessment of Chest X-Ray Image-Based COVID-19 Detection using Deep Transfer Learning Models. , 2022, , .		0
1454	Convolutional Neural Network based COVID-19 Recognition from X-Ray Image. , 2022, , .		0
1455	Fuzzy Logic and Deep learning Techniques for Covid-19 Detection. , 2022, , .		0
1456	COVID-19 Classification From X-rays : A Comparative Study. , 2022, , .		0
1457	Detection of Pathologies in X-Ray Chest Images using a Deep Convolutional Neural Network with Appropriate Data Augmentation Techniques. , 2022, , .		0
1458	An Overview of Deep-Learning-Based Methods for Cardiovascular Risk Assessment with Retinal Images. Diagnostics, 2023, 13, 68.	2.6	6

#	Article	IF	Citations
1459	COVID-19 Detection: A Systematic Review of Machine and Deep Learning-Based Approaches Utilizing Chest X-Rays and CT Scans. Cognitive Computation, 0, , .	5.2	5
1460	An Efficient Deep Learning Method for Detection of COVID-19 Infection Using Chest X-ray Images. Diagnostics, 2023, 13, 131.	2.6	17
1461	Self-Supervised Contrastive Learning for Covid-19 Classification from Computed Tomography Images. , 2022, , .		2
1462	Analysis on Chest X-ray and Computed Tomography Images to Detect COVID-19 Based on Deep Learning Techniques. , 2022, , .		0
1463	Weighted ensemble model for image classification. International Journal of Information Technology (Singapore), 2023, 15, 557-564.	2.7	6
1464	An Empirical Study of CNN-Deep Learning Models for Detection of Covid-19 Using Chest X-Ray Images. Lecture Notes in Networks and Systems, 2023, , 161-170.	0.7	1
1465	A hybrid CNN–KNN approach for identification of COVID-19 with 5-fold cross validation. Sensors International, 2023, 4, 100229.	8.4	10
1466	Lightweight ResGRU: a deep learning-based prediction of SARS-CoV-2 (COVID-19) and its severity classification using multimodal chest radiography images. Neural Computing and Applications, 2023, 35, 9637-9655.	5.6	3
1467	COVID-19 Classification on Chest X-ray Images Using Deep Learning Methods. International Journal of Environmental Research and Public Health, 2023, 20, 2035.	2.6	18
1468	A survey of machine learning-based methods for COVID-19 medical image analysis. Medical and Biological Engineering and Computing, 2023, 61, 1257-1297.	2.8	9
1469	An Explainable AI driven Decision Support System for COVID-19 Diagnosis using Fused Classification and Segmentation. Procedia Computer Science, 2023, 218, 1915-1925.	2.0	4
1470	Automation of COVID-19 Disease Diagnosis from Radiograph. Signals and Communication Technology, 2023, , 37-47.	0.5	1
1471	Interpretable Differential Diagnosis of Non-COVID Viral Pneumonia, Lung Opacity and COVID-19 Using Tuned Transfer Learning and Explainable AI. Healthcare (Switzerland), 2023, 11, 410.	2.0	3
1472	Federated Learning to Safeguard Patients Data: A Medical Image Retrieval Case. Big Data and Cognitive Computing, 2023, 7, 18.	4.7	9
1473	Analysis of High-Resolution CT Images of COVID-19 Patients. EAI/Springer Innovations in Communication and Computing, 2023, , 225-240.	1.1	0
1474	Combating COVID-19 by employing machine learning predictions and projections. , 2023, , 175-203.		0
1475	Coronavirus disease identification using Multi-subband feature analysis in DWT domain. Procedia Computer Science, 2023, 218, 574-584.	2.0	0
1476	A Novel Explainable CNN Model for Screening COVID-19 on X-ray Images. Computer Systems Science and Engineering, 2023, 46, 1789-1809.	2.4	0

#	ARTICLE	IF	CITATIONS
1477	VGG-COVIDNet: A Novel model for COVID detection from X-Ray and CT Scan images. Procedia Computer Science, 2023, 218, 1926-1935.	2.0	1
1478	Omics approaches in COVID-19: An overview. , 2023, , 3-21.		0
1479	Mayfly Optimization with Deep Belief Network-Based Automated COVID-19 Cough Classification Using Biological Audio Signals. Cybernetics and Systems, 2023, 54, 767-786.	2.5	1
1480	A deep learning approach for COVID-19 detection from computed tomography scans. , 2023, , 223-240.		1
1481	AMSFMap Methodology to improve prediction accuracy of CNN model for Covid19 using X-ray images. Procedia Computer Science, 2023, 218, 1394-1404.	2.0	1
1482	COVID-DenseNet: A Deep Learning Architecture toÂDetect COVID-19 fromÂChest Radiology Images. Lecture Notes in Networks and Systems, 2023, , 397-415.	0.7	2
1483	Automated grading of chest x-ray images for viral pneumonia with convolutional neural networks ensemble and region of interest localization. PLoS ONE, 2023, 18, e0280352.	2.5	4
1484	PneuNet: deep learning for COVID-19 pneumonia diagnosis on chest X-ray image analysis using Vision Transformer. Medical and Biological Engineering and Computing, 2023, 61, 1395-1408.	2.8	10
1485	COVIDMe: a digital twin for COVID-19 self-assessment and detection. , 2023, , 137-156.		0
1486	CNNâ€"RNN Network Integration for the Diagnosis of COVID-19 Using Chest X-ray and CT Images. Sensors, 2023, 23, 1356.	3.8	10
1487	Uncertain-CAM: Uncertainty-Based Ensemble Machine Voting for Improved COVID-19 CXR Classification and Explainability. Diagnostics, 2023, 13, 441.	2.6	5
1488	A hybrid deep neural networkâ€"based automated diagnosis system using xâ€"ray images and clinical findings. International Journal of Imaging Systems and Technology, 2023, 33, 1368-1382.	4.1	1
1489	Emerging technologies for COVID (ET-CoV) detection and diagnosis: Recent advancements, applications, challenges, and future perspectives. Biomedical Signal Processing and Control, 2023, 83, 104642.	5.7	5
1490	Medical Diagnosis and Identification of Covid -19 by Intelligent IoT System and Resnet 18 Bilinear Deep Greedy Network. , 2022, , .		0
1491	COVID-19 detection on chest x-ray image using yolo based architecture. , 2023, , .		1
1492	Predicting infection with coronavirus wirelessly based on artificial neural network and MATLAB. AIP Conference Proceedings, 2023, , .	0.4	0
1493	SD-GAN: A Style Distribution Transfer Generative Adversarial Network for Covid-19 Detection Through X-Ray Images. IEEE Access, 2023, 11, 24545-24560.	4.2	3
1494	A deep learning approach to track Arabidopsis seedlingsâ€™ circumnutation from time-lapse videos. Plant Methods, 2023, 19, .	4.3	2

#	Article	IF	Citations
1495	Artificial intelligence centric scientific research on COVID-19: an analysis based on scientometrics data. Multimedia Tools and Applications, 2023, 82, 32755-32787.	3.9	1
1496	A Deep Learning-Based System to Assist Radiologists in Detecting COVID-19 Disease from Chest Computed Tomography Images. Karadeniz Fen Bilimleri Dergisi, 2023, 13, 72-96.	0.3	0
1497	Deep learningâ€based semantic segmentation of nonâ€melanocytic skin tumors in wholeâ€slide histopathological images. Experimental Dermatology, 2023, 32, 831-839.	2.9	1
1498	Classification, detection and sentiment analysis using machine learning over next generation communication platforms. Microprocessors and Microsystems, 2023, 98, 104795.	2.8	1
1499	A COVID-19 medical image classification algorithm based on Transformer. Scientific Reports, 2023, 13, .	3.3	7
1500	AI-based wavelet and stacked deep learning architecture for detecting coronavirus (COVID-19) from chest X-ray images. Computers and Electrical Engineering, 2023, 108, 108711.	4.8	6
1501	Boosting automatic COVID-19 detection performance with self-supervised learning and batch knowledge ensembling. Computers in Biology and Medicine, 2023, 158, 106877.	7.0	3
1502	CTMLP: Can MLPs replace CNNs or transformers for COVID-19 diagnosis?. Computers in Biology and Medicine, 2023, 159, 106847.	7.0	1
1503	Applications of deep learning in disease diagnosis of chest radiographs: A survey on materials and methods. Biomedical Engineering Advances, 2023, 5, 100076.	3.8	1
1504	COVID-19 diagnosis: A comprehensive review of pre-trained deep learning models based on feature extraction algorithm. Results in Engineering, 2023, 18, 101020.	5.1	4
1505	Semantically preserving adversarial unsupervised domain adaptation network for improving disease recognition from chest x-rays. Computerized Medical Imaging and Graphics, 2023, 107, 102232.	5.8	1
1506	MTMC-AUR2CNet: Multi-textural multi-class attention recurrent residual convolutional neural network for COVID-19 classification using chest X-ray images. Biomedical Signal Processing and Control, 2023, 85, 104857.	5.7	1
1507	A lightweight CORONA-NET for COVID-19 detection in X-ray images. Expert Systems With Applications, 2023, 225, 120023.	7.6	2
1508	An overview of deep learning techniques for COVID-19 detection: methods, challenges, and future works. Multimedia Systems, 2023, 29, 1603-1627.	4.7	7
1509	Quantum Inspired Differential Evolution with Explainable Artificial Intelligence-Based COVID-19 Detection. Computer Systems Science and Engineering, 2023, 46, 209-224.	2.4	0
1510	Lightweight Cost Effective Deep Learning Model for COVID-19 Detection using CXR Images. , 2022, , .		0
1511	Applied Enhanced Q-NAS forÂCOVID-19 Detection inÂCT Images. Communications in Computer and Information Science, 2022, , 419-433.	0.5	0
1512	Characterizing Deep Learning Neural Network Failures Between Algorithmic Inaccuracy and Transient Hardware Faults. , 2022, , .		1

#	ARTICLE	IF	CITATIONS
1513	Real-world evidence: Telemedicine for complicated cases of urinary tract infection. PLoS ONE, 2023, 18, e0280386.	2.5	0
1514	DTLCx: An Improved ResNet Architecture to Classify Normal and Conventional Pneumonia Cases from COVID-19 Instances with Grad-CAM-Based Superimposed Visualization Utilizing Chest X-ray Images. Diagnostics, 2023, 13, 551.	2.6	8
1515	Digital Transformation and Open Innovation Planning of Response to COVID-19 Outbreak: A Systematic Literature Review and Future Research Agenda. International Journal of Environmental Research and Public Health, 2023, 20, 2731.	2.6	1
1516	In Search of an Efficient and Reliable Deep Learning Model for Identification of COVID-19 Infection from Chest X-ray Images. Diagnostics, 2023, 13, 574.	2.6	2
1517	Pre-Trained Xception Model-based COVID Detection using CXR Images. , 2022, , .		0
1518	Hybrid Deep Learning Models for Effective COVID -19 Diagnosis with Chest X-Rays. Advances in Computer and Electrical Engineering Book Series, 2023, , 98-123.	0.3	0
1519	SCovNet: A skip connection-based feature union deep learning technique with statistical approach analysis for the detection of COVID-19. Biocybernetics and Biomedical Engineering, 2023, 43, 352-368.	5.9	12
1520	U-NET Architecture for Liver Segmentation using Multi Model Scans. , 2022, , .		1
1521	Diagnosis of Coronavirus Disease From Chest X-Ray Images Using DenseNet-169 Architecture. SN Computer Science, 2023, 4, .	3.6	5
1522	Detection of Covid-19 Using CT-Scan Images and Deep Transfer Learning. Lecture Notes in Electrical Engineering, 2023, , 425-434.	0.4	0
1523	Artificial intelligence based approach for categorization of COVID-19 ECG images in presence of other cardiovascular disorders. Biomedical Physics and Engineering Express, 2023, 9, 035012.	1.2	3
1524	Evaluation of EfficientNet models for COVID-19 detection using lung parenchyma. Neural Computing and Applications, 2023, 35, 12121-12132.	5.6	8
1525	Design a simple Covid-19 detection using corodet: A deep learning-based classification. AIP Conference Proceedings, 2023, , .	0.4	0
1526	DPDH-CapNet: A Novel Lightweight Capsule Network with Non-routing for COVID-19 Diagnosis Using X-ray Images. Journal of Digital Imaging, 2023, 36, 988-1000.	2.9	2
1527	Covid 19 Prediction Through Chest CT Scans using Deep Learning and Deploying Model on Flask Web. , 2022, , .		1
1528	MonkeyNet: A robust deep convolutional neural network for monkeypox disease detection and classification. Neural Networks, 2023, 161, 757-775.	5.9	30
1529	A Novel 18-Convolutional Layered Deep U-Net Architecture for COVID-19 Infection Diagnosis Through Object Detection on Lung CT Scan Segmentation. Lecture Notes in Networks and Systems, 2023, , 631-638.	0.7	0
1530	Information Systems in Medical Settings: A Covid-19 Detection System Using X-Ray Scans. , 2022, , .		1

#	Article	IF	Citations
1531	Data privacy protection domain adaptation by roughing and finishing stage. Visual Computer, 2024, 40, 471-488.	3.5	1
1532	Fusing clinical and image data for detecting the severity level of hospitalized symptomatic COVID-19 patients using hierarchical model. Research on Biomedical Engineering, 2023, 39, 209-232.	2.2	3
1533	Deep CNN based Multi Classification of Respiratory Disease using X-Ray Images. , 2022, , .		0
1534	CsPbBr3-DMSO merged perovskite micro-bricks for efficient X-ray detection. Nano Research, 2023, 16, 9983-9989.	10.4	2
1535	Classification of Covid-19 X-Ray Images Using Fuzzy Gabor Filter and DCNN. Advances in Science and Technology, 0, , .	0.2	0
1536	CCTCOVID: COVID-19 detection from chest X-ray images using Compact Convolutional Transformers. Frontiers in Public Health, 0, 11, .	2.7	4
1537	Machine Learning Model for Predicting Epidemics. Computers, 2023, 12, 54.	3.3	1
1538	COVID-Net USPro: An Explainable Few-Shot Deep Prototypical Network for COVID-19 Screening Using Point-of-Care Ultrasound. Sensors, 2023, 23, 2621.	3.8	5
1539	Detection-Accuracy Enhancement of COVID-19 from Multi-Class Lung Diseases by Instrumenting CLAHE Integrated Deep Learning Technique. , 2022, , .		0
1540	Automated Quantification of Pneumonia Infected Volume in Lung CT Images: A Comparison with Subjective Assessment of Radiologists. Bioengineering, 2023, 10, 321.	3.5	0
1541	Robust Classification and Detection of Big Medical Data Using Advanced Parallel K-Means Clustering, YOLOv4, and Logistic Regression. Life, 2023, 13, 691.	2.4	11
1542	Derin Ã–ÄŸrenme ile GÃ¶ÄŸÃ¼s RÃ¶ntgeni GÃ¶rÃ¼ntÃ¼lerinden COVID-19 ve Viral PnÃ¶moni Tespiti. Afyon Kocatepe University Journal of Sciences and Engineering, 2023, 23, 89-100.	0.2	0
1543	Enhancing deep learning techniques for the diagnosis of the novel coronavirus (COVID-19) using X-ray images. Cogent Engineering, 2023, 10, .	2.2	3
1544	COVID-19 radiograph prognosis using a deep CResNeXt network. Multimedia Tools and Applications, 2023, 82, 36479-36505.	3.9	2
1545	Artificial Intelligence and Economic Development: An Evolutionary Investigation and Systematic Review. Journal of the Knowledge Economy, 0, , .	4.4	3
1546	A Hybrid Model Based on Deep Features and Ensemble Learning for the Diagnosis of COVID-19: DeepFeat-E. , 0, , .		0
1547	Computer-Aided Diagnosis of COVID-19 from Chest X-ray Images Using Hybrid-Features and Random Forest Classifier. Healthcare (Switzerland), 2023, 11, 837.	2.0	8
1548	kNN-SVM with Deep Features for COVID-19 Pneumonia Detection from Chest X-ray. Springer Proceedings in Mathematics and Statistics, 2022, , 103-115.	0.2	0

#	Article	IF	Citations
1549	Bio-medical imaging (X-ray, CT, ultrasound, ECG), genome sequences applications of deep neural network and machine learning in diagnosis, detection, classification, and segmentation of COVID-19: a Meta-analysis & systematic review. Multimedia Tools and Applications, 2023, 82, 39157-39210.	3.9	6
1550	The design of a point of care FET biosensor to detect and screen COVID-19. Scientific Reports, 2023, 13, .	3.3	10
1551	Effect of Specimen Processing Technique on Cell Detection and Classification by Artificial Intelligence. American Journal of Clinical Pathology, 2023, 159, 448-454.	0.7	1
1552	Optimal feature selection for COVID-19 detection with CT images enabled by metaheuristic optimization and artificial intelligence. Multimedia Tools and Applications, 2023, 82, 41073-41103.	3.9	2
1553	Review on chest pathogies detection systems using deep learning techniques. Artificial Intelligence Review, 2023, 56, 12607-12653.	15.7	2
1554	Dynamic chest computed tomography change analysis and prediction of length of stay for delta variant COVID-19 patients. Radiology of Infectious Diseases, 2022, 9, 136.	0.0	0
1555	Automated COVID-19 screening framework via Deep Convolutional Neural Network with Chest X-ray Medical Images. , 2022, , .		0
1556	An Improved Accuracy in Anticipating the User Nature using a novel logistic regression algorithm throughout the pandemic across online social media based on Indian metrics over Support Vector Clustering Algorithm. , 2022, , .		0
1557	Application of multi-class deep learning technique in detection of Covid-19 and other four lung diseases using X-ray images. AIP Conference Proceedings, 2023, , .	0.4	0
1558	Multimodality Imaging of COVID-19 Using Fine-Tuned Deep Learning Models. Diagnostics, 2023, 13, 1268.	2.6	1
1560	Chest Abnormality Detection from X-Rays Using Deep Learning. , 2022, , .		0
1561	Covid RayScan. , 2022, , .		0
1562	On the Implementation of the Artificial Neural Network Approach for Forecasting Different Healthcare Events. Diagnostics, 2023, 13, 1310.	2.6	7
1563	DETECTION OF PNEUMONIA FROM X-RAY IMAGES USING DEEP LEARNING TECHNIQUES. , 2023, , 419-440.		2
1564	Deep Convolutional Neural Networks for Detecting COVID-19 Using Medical Images: A Survey. New Generation Computing, 2023, 41, 343-400.	3.3	3
1565	A Comparison of COVID-19 Detection using Deep Learning Methods. , 2023, , .		0
1566	A CONV-XGB DNN for the Detection of Lung Disease on Chest X-ray Images Using Transfer Learning. Advances in Intelligent Systems and Computing, 2023, , 609-623.	0.6	0
1567	An XAI approach for COVID-19 detection using transfer learning with X-ray images. Heliyon, 2023, 9, e15137.	3.2	8

#	Article	IF	Citations
1568	Fusion-Based Segmentation and Classification of Novel Coronavirus or Pneumonia from Chest X-ray Images Using Machine Learning Techniques. , 2022, , .		0
1569	Classifying Chest X-rays for COVID-19 using Deep Learning. , 2023, , .		1
1570	DeepCOVNet Model for COVID-19 Detection Using Chest X-Ray Images. Wireless Personal Communications, 0, , .	2.7	0
1571	Ontology-based semantic data interestingness using BERT models. Connection Science, 2023, 35, .	3.0	0
1572	Precision Diagnosis to Discriminate Covid-19 and Pneumonia using Mixed-data Model based on Custom Neural Networks. , 2022, , .		0
1573	Relationship between a deep learning model and liquidâ€based cytological processing techniques. Cytopathology, 0, , .	0.7	0
1574	A Novel Fusion Model of Hand-Crafted Features With Deep Convolutional Neural Networks for Classification of Several Chest Diseases Using X-Ray Images. IEEE Access, 2023, 11, 39243-39268.	4.2	3
1575	Classification of Lung Chest X-Ray Images Using Deep Learning with Efficient Optimizers. , 2023, , .		0
1576	Pneumonia Detection Using Enhanced Convolutional Neural Network Model on Chest X-Ray Images. Big Data, 0, , .	3.4	3
1577	Iris tumor recognition based on hybrid classical and quantum neural network. , 2023, , .		1
1578	COVID-SegNet: encoderâ€"decoder-based architecture for COVID-19 lesion segmentation in chest X-ray. Multimedia Systems, 2023, 29, 2111-2124.	4.7	2
1579	Combination of the Features of Pre-trained Xception and VGG16 Models to Identify Childhood Pneumonia from Chest X-Ray Images. , 2023, , .		2
1580	Progressive attention integration-based multi-scale efficient network for medical imaging analysis with application to COVID-19 diagnosis. Computers in Biology and Medicine, 2023, 159, 106947.	7.0	5
1581	A Concise Review on Developmental and Evaluation Methods of Artificial Intelligence on COVID-19 Detection. Medical Virology, 2023, , 135-148.	2.2	0
1582	ADU-Net: An Attention Dense U-Net based deep supervised DNN for automated lesion segmentation of COVID-19 from chest CT images. Biomedical Signal Processing and Control, 2023, 85, 104974.	5.7	4
1583	Predict Early Pneumonitis in Health Care Using Hybrid Model Algorithms. , 2023, , 14-26.		2
1584	XAIForCOVID-19: A Comparative Analysis ofÂVarious Explainable AI Techniques forÂCOVID-19 Diagnosis Using Chest X-Ray Images. Communications in Computer and Information Science, 2023, , 503-517.	0.5	0
1585	Utilizing Deep Learning Models and Transfer Learning for COVID-19 Detection from X-Ray Images. SN Computer Science, 2023, 4, .	3.6	7

#	Article	IF	Citations
1587	Deep Learning-and Transfer Learning-based Models for COVID-19 Detection using Radiography Images. , 2023, , .		2
1588	Face Mask And Body Temperature Detection In Sensor Enabled Automated Door Control System. , 2023, , .		0
1589	Rethinking Densely Connected Convolutional Networks for Diagnosing Infectious Diseases. Computers, 2023, 12, 95.	3.3	3
1590	Mobile Bot Application for Identification of Trypanosoma evansi Infection through Thin-Blood Film Examination Based on Deep Learning Approach. , 2023, , .		2
1591	Bibliometric analysis of the use of artificial intelligence in COVIDâ€19 based on scientific studies. Health Science Reports, 2023, 6, .	1.5	1
1592	A Real Time Method for Distinguishing COVID-19 Utilizing 2D-CNN and Transfer Learning. Sensors, 2023, 23, 4458.	3.8	3
1593	COVID-ConvNet: A Convolutional Neural Network Classifier for Diagnosing COVID-19 Infection. Diagnostics, 2023, 13, 1675.	2.6	1
1594	Application of Convolutional Neural Networks for COVID-19 Detection in X-ray Images Using InceptionV3 and U-Net. New Generation Computing, 2023, 41, 475-502.	3.3	2
1595	HQDCNet: Hybrid Quantum Dilated Convolution Neural Network for detecting covid-19 in the context of Big Data Analytics. Multimedia Tools and Applications, 2024, 83, 2145-2171.	3.9	2
1596	Detecting COVID-19 from Chest X-rays Using Convolutional Neural Network Ensembles. Computers, 2023, 12, 105.	3.3	1
1597	Diagnosis of Developmental Dysplasia of the Hip by Ultrasound Imaging Using Deep Learning. Journal of Pediatric Orthopaedics, 2023, 43, e538-e544.	1.2	1
1598	A review of current effective COVID-19 testing methods and quality control. Archives of Microbiology, 2023, 205, .	2.2	3
1599	A novel and accurate deep learning-based Covid-19 diagnostic model for heart patients. Signal, Image and Video Processing, 2023, 17, 3397-3404.	2.7	0
1600	CRV-NET: Robust Intensity Recognition of Coronavirus in Lung Computerized Tomography Scan Images. Diagnostics, 2023, 13, 1783.	2.6	1
1601	COVID-Net Architecture Modification for Covid-19 Detection on Chest X-ray Images. , 2022, , .		1
1602	Challenges and Opportunity for Salient Object Detection in COVID-19 Era: A Study. Lecture Notes in Electrical Engineering, 2023, , 3-13.	0.4	0
1603	COVID19-ResCapsNet: A Novel Residual Capsule Network for COVID-19 Detection from Chest X-Ray Scans Images. IEEE Access, 2023, , 1-1.	4.2	0
1604	COVID-19 Disease Prediction Utilizing Dilated Convolution Neural Network Based Levy Flight Tunicate Swarm Optimization. Wireless Personal Communications, 0, , .	2.7	0

#	ARTICLE	IF	CITATIONS
1605	Parallel CNN-ELM: A multiclass classification of chest X-ray images to identify seventeen lung diseases including COVID-19. Expert Systems With Applications, 2023, 229, 120528.	7.6	11
1606	Diagnosis of COVID-19 from blood parameters using convolutional neural network. Soft Computing, 2023, 27, 10555-10570.	3.6	1
1607	Reconsideration of drug repurposing through artificial intelligence program for the treatment of the novel coronavirus. , 2023, , 45-68.		0
1609	A Study of the Neuro Learning Model to Diagnosis of the (COVID-19). Lecture Notes in Networks and Systems, 2023, , 703-712.	0.7	0
1610	Research on X-ray Image Classification Algorithm of COVID-19 Based on FS-TResN et Model. , 2022, , .		0
1611	COVID-19 Diagnosis Based on Deep Features Using Transfer Learning. Lecture Notes in Networks and Systems, 2023, , 167-177.	0.7	0
1612	COVID-ViT: COVID-19 Detection Method Based onÂVision Transformers. Lecture Notes in Networks and Systems, 2023, , 81-90.	0.7	0
1613	COVID-19 prediction based on hybrid Inception V3 with VGG16 using chest X-ray images. Multimedia Tools and Applications, 0, , .	3.9	4
1614	AI-based computer-aided diagnostic system of chest digital tomography synthesis: Demonstrating comparative advantage with X-ray-based AI systems. Computer Methods and Programs in Biomedicine, 2023, 240, 107643.	4.7	3
1615	A comprehensive review of COVID-19 detection with machine learning and deep learning techniques. Health and Technology, 2023, 13, 679-692.	3.6	6
1616	Enhancing COVID-19 Diagnosis with Automated Reporting using Preprocessed Chest X-Ray Image Analysis based on CNN. , 2023, , .		0
1617	CovidCoughNet: A new method based on convolutional neural networks and deep feature extraction using pitch-shifting data augmentation for covid-19 detection from cough, breath, and voice signals. Computers in Biology and Medicine, 2023, 163, 107153.	7.0	5
1618	AI-enabled case detection model for infectious disease outbreaks in resource-limited settings. Frontiers in Applied Mathematics and Statistics, 0, 9, .	1.3	1
1619	An explainable artificial intelligence model for identifying local indicators and detecting lung disease from chest X-ray images. Healthcare Analytics, 2023, 4, 100206.	4.3	3
1620	A Reliable andÂEfficient Transfer Learning Approach forÂIdentifying COVID-19 Pneumonia fromÂChest X-ray. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2023, , 122-136.	0.3	0
1621	MedGAN: An adaptive GAN approach for medical image generation. Computers in Biology and Medicine, 2023, 163, 107119.	7.0	2
1622	An interpretable decision-support model for breast cancer diagnosis using histopathology images. Journal of Pathology Informatics, 2023, 14, 100319.	1.7	2
1623	Assiduous Study of the Hyperparametersâ€™ Influence on CNN Using COVID-19 CT Images. Lecture Notes in Networks and Systems, 2023, , 315-327.	0.7	0

#	Article	IF	Citations
1624	Application of Explainable Convolutional Neural Networks on the Differential Diagnosis of Covid_19 and Pneumonia using Chest Radiograph. , 2023, , .		0
1625	Capsule networks for computer vision applications: a comprehensive review. Applied Intelligence, 2023, 53, 21799-21826.	5.3	1
1626	Automatic diagnosis of COVID-19 from CT images using CycleGAN and transfer learning. Applied Soft Computing Journal, 2023, 144, 110511.	7.2	4
1627	Radiological overview of chest X-ray in Covid-19: Case report at the Lung Hospital Dr. Ario Wirawan Salatiga. AIP Conference Proceedings, 2023, , .	0.4	0
1628	Fine-grained attention & knowledge-based collaborative network for diabetic retinopathy grading. Heliyon, 2023, 9, e17217.	3.2	1
1629	Pathological changes or technical artefacts? The problem of the heterogenous databases in COVID-19 CXR image analysis. Computer Methods and Programs in Biomedicine, 2023, 240, 107684.	4.7	2
1630	Feature-based deep neural network approach for predicting mortality risk in patients with COVID-19. Engineering Applications of Artificial Intelligence, 2023, 124, 106644.	8.1	1
1631	Reviewing methods of deep learning for diagnosing COVID-19, its variants and synergistic medicine combinations. Computers in Biology and Medicine, 2023, 163, 107191.	7.0	14
1632	Using data science for sustainable development in higher education. Sustainable Development, 2024, 32, 15-28.	12.5	2
1633	Automatic detection of COVID-19 and pneumonia from chest X-ray images using texture features. Journal of Supercomputing, 0, , .	3.6	0
1634	Diagnosis of Chest Pneumonia with X-ray Images Based on Graph Reasoning. Diagnostics, 2023, 13, 2125.	2.6	1
1635	ConvCoroNet: a deep convolutional neural network optimized with iterative thresholding algorithm for Covid-19 detection using chest X-ray images. Journal of Biomolecular Structure and Dynamics, 0, , 1-14.	3.5	0
1636	Enhanced COVID-19 Detection by chest x-ray images using transfer learning-based extracted deep features and information fusion. , 2023, , .		0
1637	Application of data fusion for automated detection of children with developmental and mental disorders: A systematic review of the last decade. Information Fusion, 2023, 99, 101898.	19.1	33
1638	Uretery Stone Detection with CT Scan Image Contrast Analysis. Lecture Notes in Electrical Engineering, 2023, , 163-171.	0.4	0
1639	X-Ray Images Analytics Algorithm based on Machine Learning. WSEAS Transactions on Information Science and Applications, 2023, 20, 136-145.	0.3	1
1640	Harnessing Machine Learning in Early COVID-19 Detection and Prognosis: A Comprehensive Systematic Review. Cureus, 2023, , .	0.5	1
1641	Blockchain-Based Trusted Federated Learning with Pre-Trained Models for COVID-19 Detection. Electronics (Switzerland), 2023, 12, 2068.	3.1	3

#	Article	IF	Citations
1642	Classifying Chest X-Ray Images using Residual Neural Network. , 2022, , .		0
1643	DeepCOVID-Fuse: A Multi-Modality Deep Learning Model Fusing Chest X-rays and Clinical Variables to Predict COVID-19 Risk Levels. Bioengineering, 2023, 10, 556.	3.5	0
1644	KIDNEY STONE DETECTION AND CLASSIFICATION BASED ON DEEP LEARNING APPROACH. , 2023, 7, 38-42.		0
1645	<scp>COVID</scp>â€19: A systematic review of prediction and classification techniques. International Journal of Imaging Systems and Technology, 0, , .	4.1	0
1646	Deep learning approach for early prediction of COVID-19 mortality using chest X-ray and electronic health records. BMC Bioinformatics, 2023, 24, .	2.6	2
1647	Deep Learning Based COVID-19 Detection via Hard Voting Ensemble Method. Wireless Personal Communications, 0, , .	2.7	0
1648	Data Mining Techniques for Extraction and Analysis of Covid-19 Data. , 2022, , .		0
1649	Diagnosis of COVID-19 from the X-Ray images using BAT Algorithm with Deep Convolutional Neural Network. , 2023, , .		0
1650	Early detection of COVID-19 using deep learning architectures: CNN and resnet-101. , 2022, , .		0
1651	Deep Learning Methods for Interpretation of Pulmonary CT and X-ray Images in Patients with COVID-19-Related Lung Involvement: A Systematic Review. Journal of Clinical Medicine, 2023, 12, 3446.	2.4	4
1652	Artificial Intelligence-Based IoT Applications in Future Pandemics. , 2023, , 83-106.		0
1653	A Survey on Deep Learning Methods for Addressing COVID-19 Issues. Lecture Notes in Networks and Systems, 2023, , 61-73.	0.7	0
1654	A Deep Learning-Based Preventive Measures of COVID-19 in a crowd using Reinforcement Model over GAN for Enhanced efficiency. , 2023, , .		0
1655	Application of Pre-Trained CNN Methods to Identify COVID-19 Pneumonia from Chest X-Ray. , 2023, , .		1
1656	Automatic Detection of Diseases from Chest Radiographs Using Image Augmentations and Deep Convolutional Neural Networks. , 2023, , .		0
1657	Detection & Classification of Tuberculosis HIV-Positive Patients using Deep Learning. , 2023, , .		1
1658	CV-CXR: A Method for Classification and Visualisation of Covid-19 virus using CNN and Heatmap*. , 2023, , .		1
1659	Comparision of Deep Learning Methods for Detecting COVID-19 in X-Ray Images. , 2023, , 723-739.		0

#	Article	IF	Citations
1660	NNA and Activation Equation-Based Prediction of New COVID-19 Infections. , 2023, , .		0
1661	COVID-19 Severity Prediction from Chest X-ray Images Using an Anatomy-Aware Deep Learning Model. Journal of Digital Imaging, 0, , .	2.9	0
1662	COVID-19 symptom identification using Deep Learning and hardware emulated systems. Engineering Applications of Artificial Intelligence, 2023, 125, 106709.	8.1	2
1663	IoT-enabled technologies for controlling COVID-19 Spread: A scientometric analysis using CiteSpace. Internet of Things (Netherlands), 2023, 23, 100863.	7.7	7
1664	Neural network-based strategies for automatically diagnosing of COVID-19 from X-ray images utilizing different feature extraction algorithms. Network Modeling Analysis in Health Informatics and Bioinformatics, 2023, 12, .	2.1	1
1665	CoviDetector: A transfer learning-based semi supervised approach to detect Covid-19 using CXR images. BenchCouncil Transactions on Benchmarks, Standards and Evaluations, 2023, 3, 100119.	3.1	1
1666	A survey on artificial intelligence in pulmonary imaging. Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 2023, 13, .	6.8	2
1667	DiagCovidPNA: diagnosing and differentiating COVID-19, viral and bacterial pneumonia from chest X-ray images using a hybrid specialized deep learning approach. Soft Computing, 0, , .	3.6	1
1668	A Comparative Analysis of Chest X-Rays and CT Scans Towards COVID-19 Detection. , 2023, , .		0
1669	Automation of Decellularization Process Using Artificial Neural Networks. , 2023, , .		0
1670	X-Tract: Framework for Flexible Extraction of Features in Chest Radiographs for Disease Diagnosis Using Machine Learning. Smart Innovation, Systems and Technologies, 2023, , 335-349.	0.6	0
1671	Detection ofÂCOVID-19 fromÂChest X-Ray Images Using VGG-19 Architecture. Communications in Computer and Information Science, 2023, , 403-411.	0.5	0
1672	PCD-Predicting the Coronavirus using Deep Learning Techniques. , 2023, , .		0
1673	Machine Learning Approaches on Pedestrian Detection in an autonomous vehicle. , 2023, , .		1
1674	COVID-19 Detection System in a Smart Hospital Setting Using Transfer Learning and IoT-Based Model. Internet of Things, 2023, , 233-262.	1.7	0
1675	Online diagnosis of COVID-19 from chest radiography images by using deep learning algorithms. Neural Computing and Applications, 0, , .	5.6	0
1676	Development of Computer Aided Diagnosis System for Detection of COVID-19 Using Transfer Learning. Internet of Things, 2023, , 213-230.	1.7	0
1677	A New Classification Model Based on Transfer Learning of DCNN and Stacknet for Fast Classification of Pneumonia Through X-Ray Images. International Journal of Reliable and Quality E-Healthcare, 2023, 12, 1-23.	1.1	1

#	Article	IF	Citations
1678	A Comparative Analysis for the Detection of COVID-19 from Chest X-ray Dataset. , 2022, , .		0
1679	Automatic localization and classification of intervertebral disc herniation using hybrid classifier. Biomedical Signal Processing and Control, 2023, 86, 105291.	5.7	0
1680	Deep learning IoT in medical and healthcare. , 2023, , 245-261.		1
1681	Camera-based occupant behavior trajectory capture and on-site assessment of spatio-temporal transmission risk of airborne virus in a university office building. Building and Environment, 2023, 243, 110670.	6.9	0
1682	Research on the artistic expression form of traditional cultural imagery in sculpture modeling based on DE-GWO model. Applied Mathematics and Nonlinear Sciences, 2024, 9, .	1.6	1
1683	COVID-19 detection using machine learning and fusion-based deep learning models. Wasit Journal of Engineering Sciences, 2023, 11, 12-23.	0.2	0
1684	Uncertainty-Aware Convolutional Neural Network for Identifying Bilateral Opacities on Chest X-rays: A Tool to Aid Diagnosis of Acute Respiratory Distress Syndrome. Bioengineering, 2023, 10, 946.	3.5	0
1685	Classification of suspected objects and severity assessment of COVID-19 from chest X-ray images using deep transfer learning. Research on Biomedical Engineering, 0, , .	2.2	0
1686	Impact of covid-19 in lung cancer detection using image processing techniques, artificial intelligence and machine learning approaches. Smart Science, 0, , 1-16.	3.2	0
1687	COVID-19 Lung Detection using Keras Deep Learning Models. , 2023, , .		0
1688	An explainable AI approach for diagnosis of COVID-19 using MALDI-ToF mass spectrometry. Expert Systems With Applications, 2024, 236, 121226.	7.6	1
1689	<scp>CXRNet</scp>: <scp>CNNâ€attention</scp> based <scp>CXR</scp> image classifier. Expert Systems, 0, , .	4.5	0
1690	AutoCov22: A Customized Deep Learning Framework for COVID-19 Detection. SN Computer Science, 2023, 4, .	3.6	0
1691	Convolutional Neural Networks to Assist the Assessment of Lattice Parameters from X-ray Powder Diffraction. Journal of Physical Chemistry A, 0, , .	2.5	0
1692	Deep Learning and Federated Learning for Screening COVID-19: A Review. BioMedInformatics, 2023, 3, 691-713.	2.0	2
1693	LWSE: a lightweight stacked ensemble model for accurate detection of multiple chest infectious diseases including COVID-19. Multimedia Tools and Applications, 2024, 83, 23967-24003.	3.9	2
1694	HDSNE a new unsupervised multiple image database fusion learning algorithm with flexible and crispy production of one database: a proof case study of lung infection diagnose In chest X-ray images. BMC Medical Imaging, 2023, 23, .	2.7	0
1695	A deep convolutional neural network model for medical data classification from computed tomography images. Expert Systems, 0, , .	4.5	0

#	Article	IF	Citations
1696	Decision trees for early prediction of inadequate immune response to coronavirus infections: a pilot study on COVID-19. Frontiers in Medicine, 0, 10, .	2.6	1
1697	Machine and Deep Learning Algorithms for COVID-19 Mortality Prediction Using Clinical and Radiomic Features. Electronics (Switzerland), 2023, 12, 3878.	3.1	1
1698	Predicting intensive care need for COVID-19 patients using deep learning on chest radiography. Journal of Medical Imaging, 2023, 10, .	1.5	0
1699	A principled representation of elongated structures using heatmaps. Scientific Reports, 2023, 13, .	3.3	0
1700	A Deep learning based data augmentation method to improve COVID-19 detection from medical imaging. Knowledge-Based Systems, 2023, 280, 110985.	7.1	1
1701	Computer-aided diagnosis of chest X-ray for COVID-19 diagnosis in external validation study by radiologists with and without deep learning system. Scientific Reports, 2023, 13, .	3.3	1
1702	In-process detection of failure modes using YOLOv3-based on-machine vision system in face milling Inconel 718. International Journal of Advanced Manufacturing Technology, 2023, 128, 3885-3899.	3.0	0
1703	A CNN Transfer Learning-Based Automated Diagnosis of COVID-19 From Lung Computerized Tomography Scan Slices. New Generation Computing, 0, , .	3.3	0
1704	$$\mathrm SRC_{2}$$: a novel deep learning based technique for identifying COVID-19 using images of chest x-ray. Multimedia Tools and Applications, 0, , .	3.9	1
1705	An Adaptive Grid Search Based Efficient Ensemble Model for Covid-19 Classification in Chest X-Ray Scans. International Journal of Electrical & Electronics Research, 2023, 11, 794-799.	1.6	0
1706	Recent Trends of Addressing COVID-19 Disease by AI/ML. Advances in Computational Intelligence and Robotics Book Series, 2023, , 395-419.	0.4	0
1707	Neural Networks for the Diagnosis of Covid-19 in Chest X-ray Images: A Systematic Review and Meta-Analysis. EAI Endorsed Transactions on Pervasive Health and Technology, 0, 9, .	0.9	0
1708	Efficient Pandemic Infection Detection Using Wearable Sensors and Machine Learning. , 2023, , .		0
1709	Rapid and Precise Identification of COVID-19 through Segmentation and Classification of CT and X-ray Images. Sakarya University Journal of Computer and Information Sciences, 2023, 6, 123-139.	0.8	0
1710	Predicting COVID-19 Cases on a Large Chest X-Ray Dataset Using Modified Pre-trained CNN Architectures. Applied Computer Science, 2023, 28, 44-57.	0.5	0
1711	Noninvasive COVID-19 Screening Using Deep-Learning-Based Multilevel Fusion Model With an Attention Mechanism. , 2023, 2, 1-12.		2
1712	Automatic detection of coronavirus disease (COVID-19) in X-ray images using transfer learning. Journal of Intelligent and Fuzzy Systems, 2023, , 1-10.	1.4	0
1713	Developing deep transfer and machine learning models of chest X-ray for diagnosing COVID-19 cases using probabilistic single-valued neutrosophic hesitant fuzzy. Expert Systems With Applications, 2024, 236, 121300.	7.6	4

#	ARTICLE	IF	CITATIONS
1714	Analysis On Classification of Coronavirus Disease 19 From Radiography Medical Images (Computed) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5		0
1715	A Deep Learning Model Based on Capsule Networks for COVID Diagnostics through X-ray Images. Diagnostics, 2023, 13, 2858.	2.6	1
1716	Disease Area Detection for Chest Xâ€Ray Image Diagnosis Using Deep Learning with Pseudo Labeling and Ensemble Learning. IEEJ Transactions on Electrical and Electronic Engineering, 2023, 18, 1772-1780.	1.4	0
1717	Data Science for Global Health. Sustainable Development Goals Series, 2023, , 389-393.	0.4	0
1718	Karnauph Classifier: A Hybrid Mathematical Model for Data Classification. Applied Mathematics and Nonlinear Sciences, 2023, 8, 2333-2344.	1.6	0
1719	The effectiveness of deep learning vs. traditional methods for lung disease diagnosis using chest X-ray images: A systematic review. Applied Soft Computing Journal, 2023, 147, 110817.	7.2	1
1720	Images denoising for COVID-19 chest X-ray based on multi-scale parallel convolutional neural network. Multimedia Systems, 0, , .	4.7	0
1721	A Structure-Fusion Network for Medical Image Classification. , 2023, , .		0
1722	A gradient boosting-based mortality prediction model for COVID-19 patients. Neural Computing and Applications, 2023, 35, 23997-24013.	5.6	0
1723	Deep learning based Covid-19 image classification from CT and X-ray images. AIP Conference Proceedings, 2023, , .	0.4	1
1724	Adequate Basis forÂtheÂData-Driven andÂMachine-Learning-Based Identification. Lecture Notes in Computer Science, 2023, , 570-588.	1.3	0
1725	X-RCRNet: An explainable deep-learning network for COVID-19 detection using ECG beat signals. Biomedical Signal Processing and Control, 2024, 87, 105424.	5.7	0
1726	COVID-19 Detection inÂX-Rays Using Image Processing CNN Algorithm. Intelligent Systems Reference Library, 2023, , 289-307.	1.2	0
1727	AI in colonoscopy - detection and characterisation of malignant polyps. , 0, , 186-94.		1
1728	Deep Learning Approach for Advanced COVID-19 Analysis. International Journal of Innovative Technology and Exploring Engineering, 2023, 12, 1-14.	0.3	0
1729	Automated detection of COVID-19 based on transfer learning. Multimedia Tools and Applications, 2024, 83, 33731-33751.	3.9	0
1730	Ãœniversite Ã–ÄŸrencilerinin Covid-19â€™a Yakalanma Riski ve Pandeminin Ã–ÄŸrenciler Ãœzerindeki Etkisinin Makine Ã–ÄŸrenmesi YÃ¶ntemleriyle Tahmin Edilmesi. GÃ¼mÃ¼ÅŸhane Ãœniversitesi SaÄŸlÄ±k Bilimleri Dergisi, 2023, 12, 1150-1156.		0
1731	Improvement of the Process of Diagnosing Patientâ€™s Condition via Computer Tomography Lung Scans Using Neural Networks. Communications in Computer and Information Science, 2023, , 487-497.	0.5	0

#	ARTICLE	IF	CITATIONS
1732	A pyramid GNN model for CXR-based COVID-19 classification. Journal of Supercomputing, 2024, 80, 5490-5508.	3.6	0
1733	Dynamic Curriculum Learning viaÂIn-Domain Uncertainty forÂMedical Image Classification. Lecture Notes in Computer Science, 2023, , 747-757.	1.3	1
1734	Applying the digital data and the bioinformatics tools in SARS-CoV-2 research. Computational and Structural Biotechnology Journal, 2023, 21, 4697-4705.	4.1	2
1735	Trustworthy Artificial Intelligence in Medical Applications: A Mini Survey. , 2023, , .		0
1736	Adopting Deep Learning for Chest X-ray Analysis: An Extensive Survey. , 2023, , .		0
1738	Conditional cascaded network (CCN) approach for diagnosis of COVID-19 in chest X-ray and CT images using transfer learning. Biomedical Signal Processing and Control, 2024, 87, 105563.	5.7	1
1739	Selective Kernel Networks for Lung Abnormality Diagnosis Using Chest X-rays. Lecture Notes in Networks and Systems, 2023, , 937-950.	0.7	0
1740	Covid-19 Classification Model Based on Age and Gender Analysis Using SWHO-Based Deep CNN. , 2023, , .		0
1741	Two-Phase Evolutionary Convolutional Neural Network Architecture Search for Medical Image Classification. IEEE Access, 2023, 11, 115280-115305.	4.2	0
1742	An improved COVID-19 classification model on chest radiography by dual-ended multiple attention learning. IEEE Journal of Biomedical and Health Informatics, 2023, , 1-14.	6.3	0
1743	Incremental learning-based cascaded model for detection and localization of tuberculosis from chest x-ray images. Expert Systems With Applications, 2024, 238, 122129.	7.6	1
1744	Federated Learning for Healthcare Applications. IEEE Internet of Things Journal, 2024, 11, 7339-7358.	8.7	3
1745	An Enhanced Deep Learning Approach for Detecting COVID-19 using Chest X-rays Images. , 2023, , .		0
1746	A trustworthy neural architecture search framework for pneumonia image classification utilizing blockchain technology. Journal of Supercomputing, 2024, 80, 1694-1727.	3.6	2
1747	A deep transfer learning approach for COVID-19 detection and exploring a sense of belonging with Diabetes. Frontiers in Public Health, 0, 11, .	2.7	4
1748	Emergency COVID-19 detection from chest X-rays using deep neural networks and ensemble learning. Multimedia Tools and Applications, 0, , .	3.9	0
1749	Loop-Mediated Isothermal Amplification-Integrated CRISPR Methods for Infectious Disease Diagnosis at Point of Care. ACS Omega, 2023, 8, 43357-43373.	3.5	2
1750	A practical guide to the implementation of AI in orthopaedic research â€" part 1: opportunities in clinical application and overcoming existing challenges. Journal of Experimental Orthopaedics, 2023, 10, .	1.8	2

#	ARTICLE	IF	CITATIONS
1752	A hierarchical fine-grained classification approach for COVID-19 severity assessment based on CT images. Computers and Electrical Engineering, 2023, 112, 109011.	4.8	0
1753	A deep convolution neural network for automated COVID-19 disease detection using chest X-ray images. Healthcare Analytics, 2023, 4, 100278.	4.3	1
1754	Classification of the Chest X-ray Images of COVID-19 Patients Through the Mean Structural Similarity Index. Communications in Computer and Information Science, 2024, , 152-164.	0.5	0
1755	An Integrative Method for COVID-19 Patientsâ€™ Classification from Chest X-ray Using Deep Learning Network with Image Visibility Graph as Feature Extractor. Communications in Computer and Information Science, 2024, , 274-287.	0.5	0
1756	Visual transformer and deep CNN prediction of high-risk COVID-19 infected patients using fusion of CT images and clinical data. BMC Medical Informatics and Decision Making, 2023, 23, .	3.0	0
1757	Evaluating the Effect of Common Annotation Faults on Object Detection Techniques. , 2023, , .		0
1758	An efficient but effective writer: Diffusion-based semi-autoregressive transformer for automated radiology report generation. Biomedical Signal Processing and Control, 2024, 88, 105651.	5.7	0
1759	Building Resilient ML Applications using Ensembles against Faulty Training Data. , 2023, , .		0
1760	D-Score: A White-Box Diagnosis Score forÂCNNs Based onÂMutation Operators. Lecture Notes in Computer Science, 2023, , 343-358.	1.3	0
1761	CheXMed: A multimodal learning algorithm for pneumonia detection in the elderly. Information Sciences, 2024, 654, 119854.	6.9	1
1762	Improving explainable AI with patch perturbation-based evaluation pipeline: a COVID-19 X-ray image analysis case study. Scientific Reports, 2023, 13, .	3.3	2
1763	Chest X-Ray Data Augmentation with Generative Adversarial Networks for Pneumonia and COVID-19 Diagnosis. , 2023, , 55-73.		0
1764	Deep Learning on Medical Imaging in Identifying Kidney Stones: Review Paper. E3S Web of Conferences, 2023, 448, 02019.	0.5	0
1765	Biggest Margin Tree forÂtheÂMulti-class Classification. Communications in Computer and Information Science, 2023, , 34-48.	0.5	0
1766	A Transfer Learning Scheme forÂCOVID-19 Diagnosis fromÂChest X-Ray Images Using Gradient-Weighted Class Activation Mapping. Communications in Computer and Information Science, 2024, , 3-18.	0.5	0
1767	Deep Learning for Pulmonary Disease Identification. , 2023, , .		0
1768	Detection of Covid Disease using Computed Tomography Images. , 2023, , .		0
1769	Deep learning network selection and optimized information fusion for enhanced <scp>COVID</scp>â€19 detection. International Journal of Imaging Systems and Technology, 2024, 34, .	4.1	0

#	ARTICLE	IF	CITATIONS
1770	Detection ofÂCovid-19 inÂChest X-Ray Images Using Percolation Features andÂHermite Polynomial Classification. Lecture Notes in Computer Science, 2024, , 163-177.	1.3	0
1771	TwT: A Texture weighted Transformer for Medical Image Classification and Diagnosis. Lecture Notes in Networks and Systems, 2023, , 145-157.	0.7	0
1773	YOLOv5-Based Seabed Sediment Recognition Method for Side-Scan Sonar Imagery. Journal of Ocean University of China, 2023, 22, 1529-1540.	1.2	0
1774	COVID-19 Detection Using Chest X-ray Images. Lecture Notes in Electrical Engineering, 2024, , 247-255.	0.4	0
1775	A medical multimodal large language model for future pandemics. Npj Digital Medicine, 2023, 6, .	10.9	2
1776	Genetic-efficient fine-tuning with layer pruning on multimodal Covid-19 medical imaging. Neural Computing and Applications, 2024, 36, 3215-3237.	5.6	0
1777	Image Enhancement CNN Approach to COVID-19 Detection Using Chest X-ray Images. , 0, , .		0
1778	AI based detection of COVID-19 pneumonia in chest X-ray images using ResNet50. AIP Conference Proceedings, 2023, , .	0.4	0
1780	BCT-OFD: bridging CNN and transformer via online feature distillation for COVID-19 image recognition. International Journal of Machine Learning and Cybernetics, 0, , .	3.6	0
1781	Automatic detection of carbon steel corrosion degree based on image identification. Computational Materials Science, 2024, 233, 112717.	3.0	0
1782	Respiratory Diseases Detection Using Deep Learning Methods. , 2023, , .		0
1783	Pseudo-Labeling With Contrastive Perturbation Using CNN & ViT for Chest X-ray Classification. , 2023, , .		0
1784	Modern Technologies and Solutions to Enhance Surveillance and Response Systems for Emerging Zoonotic Diseases. , 2023, , 100061.		0
1785	Diagnosis and detection of pneumonia using weak-label based on X-ray images: a multi-center study. BMC Medical Imaging, 2023, 23, .	2.7	0
1786	Integrating Machine Learning with Biomedical Signal Processing and Systems Analysis: An Applications-based Course. , 2023, , .		0
1787	COVID-19 Detection Using Fusion-Based Deep Learning Models. , 2023, , .		0
1788	Designing an improved deep learning-based model for COVID-19 recognition in chest X-ray images: a knowledge distillation approach. Iran Journal of Computer Science, 0, , .	2.5	0
1789	Optimising Chest X-Rays forÂImage Analysis byÂIdentifying andÂRemoving Confounding Factors. Lecture Notes in Electrical Engineering, 2023, , 245-254.	0.4	0

#	Article	IF	Citations
1790	The Effect of Basic Fusion Techniques in Deep Ensemble Learning-Based Models For Covid-19 Diagnosis. Osmaniye Korkut Ata Üniversitesi Fen Bilimleri Enstitüsü Dergisi, 2023, 6, 1-17.	0.6	0
1791	COVID-19 prediction using Caviar Squirrel Jellyfish Search Optimization technique in fog-cloud based architecture. PLoS ONE, 2023, 18, e0295599.	2.5	0
1792	Opportunities and challenges of computer aided diagnosis in new millennium: A bibliometric analysis from 2000 to 2023. Medicine (United States), 2023, 102, e36703.	1.0	0
1793	AI-Based Covid-19 Diagnosis Approach Using Chest X-Ray and Chest CT-Images. , 2023, , .		0
1794	Covid CNN–SVM: Automated Categorization of Novel Coronavirus Disease from X-Ray Images. , 2023, , 37-50.		0
1795	A review of different deep learning methods in processing the CT scan images of the COVID-19 patients' lungs. Multiscale and Multidisciplinary Modeling, Experiments and Design, 0, , .	2.1	0
1796	Modified Local Gradient Coding Pattern (MLGCP): A Handcrafted Feature Descriptor for Classification of Infectious Diseases. Lecture Notes in Networks and Systems, 2023, , 475-486.	0.7	0
1797	Auditing the inference processes of medical-image classifiers by leveraging generative AI and the expertise of physicians. Nature Biomedical Engineering, 0, , .	22.5	4
1798	Auto-detection of the coronavirus disease by using deep convolutional neural networks and X-ray photographs. Scientific Reports, 2024, 14, .	3.3	0
1799	Fusing global features and local information for COVID-19 detection with X-ray images. Signal, Image and Video Processing, 0, , .	2.7	0
1800	Detection of COVID-19 using edge devices by a light-weight convolutional neural network from chest X-ray images. BMC Medical Imaging, 2024, 24, .	2.7	0
1801	Robust Medical Diagnosis: A Novel Two-Phase Deep Learning Framework for Adversarial Proof Disease Detection in Radiology Images. , 2024, 37, 308-338.		0
1802	A Systematic Survey of Automatic Detection of Lung Diseases from Chest X-Ray Images: COVID-19, Pneumonia, and Tuberculosis. SN Computer Science, 2024, 5, .	3.6	0
1803	An augmentation aided concise CNN based architecture for COVID-19 diagnosis in real time. Scientific Reports, 2024, 14, .	3.3	0
1804	Disease Detection using Deep Learning Algorithms on the Hardware Platforms. , 2023, , .		0
1805	CPNet: Covid19 and Viral Pneumonia Automated Detection Based on Convolutional Neural Network. , 2023, , .		2
1806	Classification and Identification of Infectious COVID-19 Virus Using Deep Learning and Machine Learning Techniques: A Comprehensive Analysis. SN Computer Science, 2024, 5, .	3.6	0
1807	How auto-differentiation can improve CT workflows: classical algorithms in a modern framework. Optics Express, 2024, 32, 9019.	3.4	0

#	ARTICLE	IF	CITATIONS
1808	Review of Artificial Intelligence-based COVID-19 Detection and A CNN-based Model to Detect Covid-19 from X-Rays and CT images. VFAST Transactions on Software Engineering, 2023, 11, 100-112.	0.0	0
1809	AI Empowered Machine Learning and Deep Learning for Combating with Covid-19; State of the Art contributions, Available Datasets, Challenges and Future Directions. VFAST Transactions on Software Engineering, 2022, 10, 71-79.	0.0	0
1810	Enhanced COVID-19 Classification Using Ensemble Meta-Algorithms on Chest X-ray Images. Earth and Environmental Sciences Library, 2024, , 485-497.	0.4	0
1811	COVID-19 detection from chest X-ray images using CLAHE-YCrCb, LBP, and machine learning algorithms. BMC Bioinformatics, 2024, 25, .	2.6	1
1812	Ensemble of explainable artificial intelligence predictions through discriminate regions: A model to identify COVID-19 from chest X-ray images. Journal of Intelligent Systems, 2023, 32, .	1.6	0
1813	Metaheuristics for assisting the deep neural network in classifying the chest X-ray images infected with COVID-19. , 2024, , 161-178.		0
1814	Enhancing pulmonary abnormality detection with an optimized CNN architecture incorporating depth-wise separable convolution and inception module. Evolving Systems, 0, , .	3.9	0
1815	Application of genomic signal processing as a tool for high-performance classification of SARS-CoV-2 variants: a machine learning-based approach. Soft Computing, 2024, 28, 2891-2918.	3.6	0
1816	An Optimized CNN and Transfer Learning Approach for Pneumonia Detection. , 2023, , .		0
1817	Prediction of COVID-19 from Lung Scans Using Deep Learning. , 2023, , .		0
1818	Improving Techniques for Convolutional Neural Networks Performance. European Journal of Education and Pedagogy, 2024, 8, 1-16.	0.3	0
1819	Recent Advancement of Artificial Intelligence in COVID-19: Prediction, Diagnosis, Monitoring, and Drug Development. Lecture Notes in Electrical Engineering, 2024, , 289-301.	0.4	0
1820	Automatic diagnosis of CoV-19 in CXR images using haar-like feature and XgBoost classifier. Multimedia Tools and Applications, 0, , .	3.9	0
1821	Compressed Deep Learning Models withÂXAI forÂCOVID-19 Detection Using CXR Images. Communications in Computer and Information Science, 2024, , 54-66.	0.5	0
1822	Artificial intelligence in medicine and the negative outcome penalty paradox. Journal of Medical Ethics, 0, , jme-2023-109848.	1.8	0
1823	SyntDiaNet: Integrating feature extraction, transfer learning and classifier-embedded generative adversarial network for advanced pneumonia diagnosis. Multimedia Tools and Applications, 0, , .	3.9	0
1824	Case Studies on X-ray Imaging, MRI and Nuclear Imaging. , 2023, , 207-225.		0
1825	Investigating the impact of transient hardware faults on deep learning neural network inference. Software Testing Verification and Reliability, 0, , .	2.0	0

#	Article	IF	Citations
1826	Edge intelligence-assisted smart healthcare solution for health pandemic: a federated environment approach. Cluster Computing, 0, , .	5.0	0
1827	A multi-level feature attention network for COVID-19 detection based on multi-source medical images. Multimedia Tools and Applications, 0, , .	3.9	1
1828	Classification of CXR of COVID-19 Based on ICA Dimensionality Reduction. , 2022, , .		0
1829	Machine Learning and Deep Learning in Chest X-Rays Images for COVID-19 Diagnosis: A Review. , 2023, , .		0
1830	Exploration of Interpretability Techniques for Deep COVID-19 Classification Using Chest X-ray Images. Journal of Imaging, 2024, 10, 45.	3.0	0
1831	Automated Tuberculosis Classification with Chest X-Rays Using Deep Neural Networks -Case Study: Nigerian Public Health. , 2024, 19, 55-64.		0
1832	Generalisation challenges in deep learning models for medical imagery: insights from external validation of COVID-19 classifiers. Multimedia Tools and Applications, 0, , .	3.9	0
1833	Advanced Double Input Layered Neural Network for medical diagnosis by using cloud computing technology. , 2023, , .		0
1834	Harnessing of Artificial Intelligence for the Diagnosis and Prevention of Hospital-Acquired Infections: A Systematic Review. Diagnostics, 2024, 14, 484.	2.6	0
1835	Custom YOLOV4 object detection model for COVID-19 diagnosis and cell counting. AIP Conference Proceedings, 2024, , .	0.4	0
1836	COVID-CX-Net: A Transfer Learning Approach to Detect COVID-19 Using Chest X-ray Images. , 2023, , .		0
1837	C-LVQ: A Convolutional Neural Network with Learning Vector Quantization for the Diagnosis of Covid-19. , 2023, , .		0
1838	Automated machine learning for the identification of asymptomatic COVID-19 carriers based on chest CT images. BMC Medical Imaging, 2024, 24, .	2.7	0
1839	COV19X-Net: A Convolutional Neural Network-based method for classifying COVID-19 in chest X-ray images. , 2023, , .		0
1840	Explainable and interpretable artificial intelligence in medicine: a systematic bibliometric review. Discover Artificial Intelligence, 2024, 4, .	3.1	0
1841	Detection of COVID-19, pneumonia, and tuberculosis from radiographs using AI-driven knowledge distillation. Heliyon, 2024, 10, e26801.	3.2	0
1842	PulmoNet: a novel deep learning based pulmonary diseases detection model. BMC Medical Imaging, 2024, 24, .	2.7	0
1843	CODENET: A deep learning model for COVID-19 detection. Computers in Biology and Medicine, 2024, 171, 108229.	7.0	0

#	Article	IF	Citations
1844	Spherical image acquisition and defect detection of nuclear fuel based on the line scan. Measurement: Journal of the International Measurement Confederation, 2024, 229, 114371.	5.0	0
1845	Detection & Diagnosis of COVID-19 from CXR Images Through VGG19 Transfer Learning Model. , 2023, , .		0
1846	Multi-Modal MRI Images Analysis for Improved Herniated Disc Diagnosis Using Deep Learning. Advances in Medical Diagnosis, Treatment, and Care, 2024, , 65-80.	0.1	0
1847	Multi-task supervised contrastive learning for chest X-ray diagnosis: A two-stage hierarchical classification framework for COVID-19 diagnosis. Applied Soft Computing Journal, 2024, 155, 111478.	7.2	0
1848	Deep Learning Super-Resolution Technique Based on Magnetic Resonance Imaging for Application of Image-Guided Diagnosis and Surgery of Trigeminal Neuralgia. Life, 2024, 14, 355.	2.4	0
1849	COViT: Convolutions and ViT based Deep Learning Model for Covid19 and Viral Pneumonia Classification using X-ray Datasets. , 2023, , .		0
1850	COVID-19 classification in X-ray/CT images using pretrained deep learning schemes. Multimedia Tools and Applications, 0, , .	3.9	0
1851	Identification of kidney stones in KUB X-ray images using VGG16 empowered with explainable artificial intelligence. Scientific Reports, 2024, 14, .	3.3	0
1852	CD-Net: Cascaded 3D Dilated convolutional neural network for pneumonia lesion segmentation. Computers in Biology and Medicine, 2024, 173, 108311.	7.0	0
1854	Modeling EfficientNet-B3 model for AI-based COVID-19 detection in chest x-rays. AIP Conference Proceedings, 2024, , .	0.4	0
1855	A multiclass deep learning algorithm for healthy lung, Covid-19 and pneumonia disease detection from chest X-ray images. Discover Artificial Intelligence, 2024, 4, .	3.1	0
1856	Data-set class-balancing and the Convolutional Vision Transformer. Biomedical Signal Processing and Control, 2024, 93, 106190.	5.7	0