

Collection and Analysis of a Parkinson Speech Dataset V Recordings

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Automatic detection of expressed emotion in Parkinson's Disease. , 2014, , .		18
2	Computer-Aided Diagnosis of Parkinsonâ€™s Disease Using Complex-Valued Neural Networks and mRMR Feature Selection Algorithm. Journal of Healthcare Engineering, 2015, 6, 281-302.	1.9	95
3	Detection of Parkinson's disease from vocal features using random subspace classifier ensemble. , 2015, , .		10
4	Security, Privacy, and Applications in Mobile Healthcare. International Journal of Distributed Sensor Networks, 2015, 11, 675129.	2.2	2
5	Efficient and accurate multivariate class conditional densities using copula. , 2015, , .		1
6	Dynamic feature selection for detecting Parkinson's disease through voice signal. , 2015, , .		11
7	Using stacked generalization and complementary neural networks to predict Parkinson's disease. , 2015, , .		14
8	Voiceprints analysis using MFCC and SVM for detecting patients with Parkinson's disease. , 2015, , .		46
9	Nearest neighbor regression in the presence of bad hubs. Knowledge-Based Systems, 2015, 86, 250-260.	7.1	38
10	A Step Towards the Automated Diagnosis of Parkinson's Disease: Analyzing Handwriting Movements. , 2015, , .		59
11	Decision Support Framework for Parkinsonâ€™s Disease Based on Novel Handwriting Markers. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2015, 23, 508-516.	4.9	121
12	Diagnosis and Tracking of Parkinsonâ€™s Disease by using Automatically Extracted Acoustic Features. , 2016, 6, .		9
13	A Multiple-Classifer Framework for Parkinsonâ€™s Disease Detection Based on Various Vocal Tests. International Journal of Telemedicine and Applications, 2016, 2016, 1-9.	2.0	39
14	Controlling Individuals Growth in Semantic Genetic Programming through Elitist Replacement. Computational Intelligence and Neuroscience, 2016, 2016, 1-12.	1.7	3
15	Swarm, Evolutionary, and Memetic Computing. Lecture Notes in Computer Science, 2016, , .	1.3	0
16	Classification of Parkinsonâ€™s disease utilizing multi-edit nearest-neighbor and ensemble learning algorithms with speech samples. BioMedical Engineering OnLine, 2016, 15, 122.	2.7	44
17	Prediction of Parkinson's disease using speech signal with Extreme Learning Machine. , 2016, , .		29
18	Features dimensionality reduction and multi-dimensional voice processing program to Parkinson disease discrimination. , 2016, , .		1

#	ARTICLE	IF	CITATIONS
19	Diagnosis of Parkinson's disease from continuous speech using deep convolutional networks without manual selection of features. , 2016, , .		23
20	Deep Learning-Aided Parkinson's Disease Diagnosis from Handwritten Dynamics. , 2016, , .		124
21	Parkinsonâ€™s Disease Recognition by Speech Acoustic Parameters Classification. Lecture Notes in Networks and Systems, 2016, , 165-173.	0.7	10
22	Greedy dictionary learning for kernel sparse representation based classifier. Pattern Recognition Letters, 2016, 78, 64-69.	4.2	19
23	Evaluation of handwriting kinematics and pressure for differential diagnosis of Parkinson's disease. Artificial Intelligence in Medicine, 2016, 67, 39-46.	6.5	203
24	Voice assessments for detecting patients with Parkinsonâ€™s diseases using PCA and NPCA. International Journal of Speech Technology, 2016, 19, 743-754.	2.2	26
25	A new computer vision-based approach to aid the diagnosis of Parkinson's disease. Computer Methods and Programs in Biomedicine, 2016, 136, 79-88.	4.7	108
26	Estimating the Severity of Parkinsonâ€™s Disease Using Voiced Ratio and Nonlinear Parameters. Lecture Notes in Computer Science, 2016, , 96-107.	1.3	4
27	Comparison of classification methods to detect the Parkinson disease. , 2016, , .		18
28	ParkinsonNET: Estimation of UPDRS Score Using Hubness-Aware Feedforward Neural Networks. Applied Artificial Intelligence, 2016, 30, 541-555.	3.2	16
29	Diagnosis of Parkinson's disease by using ANN. , 2016, , .		5
30	A Machine Learning System for the Diagnosis of Parkinsonâ€™s Disease from Speech Signals and Its Application to Multiple Speech Signal Types. Arabian Journal for Science and Engineering, 2016, 41, 5049-5059.	1.1	56
31	Analysis of multiple types of voice recordings in cepstral domain using MFCC for discriminating between patients with Parkinsonâ€™s disease and healthy people. International Journal of Speech Technology, 2016, 19, 449-456.	2.2	56
32	Discriminating Between Patients With Parkinsonâ€™s and Neurological Diseases Using Cepstral Analysis. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2016, 24, 1100-1108.	4.9	76
33	Addressing voice recording replications for Parkinsonâ€™s disease detection. Expert Systems With Applications, 2016, 46, 286-292.	7.6	110
34	A novel diagnosis system for Parkinsonâ€™s disease using complex-valued artificial neural network with k-means clustering feature weighting method. Neural Computing and Applications, 2017, 28, 1657-1666.	5.6	85
35	Addressing voice recording replications for tracking Parkinsonâ€™s disease progression. Medical and Biological Engineering and Computing, 2017, 55, 365-373.	2.8	20
36	Speech disorders in Parkinsonâ€™s disease: early diagnostics and effects of medication and brain stimulation. Journal of Neural Transmission, 2017, 124, 303-334.	2.8	157

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37	A two-stage variable selection and classification approach for Parkinson's disease detection by using voice recording replications. Computer Methods and Programs in Biomedicine, 2017, 142, 147-156.	4.7	86
38	Detecting multiple system atrophy, Parkinson and other neurological disorders using voice analysis. International Journal of Speech Technology, 2017, 20, 281-288.	2.2	6
39	Evolving multi-dimensional wavelet neural networks for classification using Cartesian Genetic Programming. Neurocomputing, 2017, 247, 39-58.	5.9	25
40	Parkinson's disease patients classification based on the speech signals. , 2017, , .		19
41	Using Human Factor Cepstral Coefficient on Multiple Types of Voice Recordings for Detecting Patients with Parkinson's Disease. Irbm, 2017, 38, 346-351.	5.6	35
42	Monitoring Parkinson's Disease in Smart Cities. IEEE Access, 2017, 5, 19835-19841.	4.2	51
43	A comparison of soft computing models for Parkinson's disease diagnosis using voice and gait features. Network Modeling Analysis in Health Informatics and Bioinformatics, 2017, 6, 1.	2.1	8
44	Voice assessments for detecting patients with neurological diseases using PCA and NPCA. International Journal of Speech Technology, 2017, 20, 673-683.	2.2	10
45	Automatic estimation of severity of Parkinson's disease based on speech rhythm related features. , 2017, , .		12
46	An efficient feature selection using artificial fish swarm optimization and svm classifier. , 2017, , .		13
47	Feature analysis of dysphonia speech for monitoring Parkinson's disease. , 2017, 2017, 2308-2311.		10
48	Simultaneous learning of speech feature and segment for classification of Parkinson disease. , 2017, , .		14
49	Selection of dominant voice features for accurate detection of Parkinson's disease. , 2017, , .		7
50	Assessment of pathological speech prosody based on automatic stress detection and phrasing approaches. , 2017, , .		1
51	Can a Smartphone Diagnose Parkinson Disease? A Deep Neural Network Method and Telediagnosis System Implementation. Parkinson's Disease, 2017, 2017, 1-11.	1.1	42
52	Prediction of Parkinson's disease using data mining. , 2017, , .		17
53	A classification based Parkinson detection system. , 2017, , .		5
54	Pathological Voice Signal Analysis Using Machine Learning Based Approaches. Journal of Computer and Information Science, 2017, 11, 8.	0.3	2

#	ARTICLE	IF	CITATIONS
55	Detection of Parkinson's Disease by Voice Signal. Lecture Notes in Networks and Systems, 2018, , 1066-1073.	0.7	2
56	A Diadochokinesis-based expert system considering articulatory features of plosive consonants for early detection of Parkinson's disease. Computer Methods and Programs in Biomedicine, 2018, 154, 89-97.	4.7	48
57	Comparative Analysis of the Classification Performance of Machine Learning Classifiers and Deep Neural Network Classifier for Prediction of Parkinson Disease. , 2018, , .		18
58	Computational Diagnosis of Parkinson's Disease from Speech Based on Regularization Methods. , 2018, , .		3
59	Healthy and Parkinson voices discrimination based on compensation/normalization cepstral features. , 2018, , .		0
60	A Deep Learning-CNN Based System for Medical Diagnosis: An Application on Parkinson's Disease Handwriting Drawings. , 2018, , .		47
61	A comparative study of machine learning algorithms for physiological signal classification. Procedia Computer Science, 2018, 126, 1977-1984.	2.0	17
62	Detection of Parkinson Disease Using Variational Mode Decomposition of Speech Signal. , 2018, , .		8
63	Empirical Bayes Transfer Learning for Uncertainty Characterization in Predicting Parkinson's Disease Severity. IJSE Transactions on Healthcare Systems Engineering, 2018, 8, 209-219.	1.7	6
64	U-Healthcare System for Pre-Diagnosis of Parkinson's Disease from Voice Signal. , 2018, , .		2
65	Deviations of acoustic low-level descriptors in speech features of a set of triplets, one with autism. , 2018, 2018, 3962-3966.		0
66	Parkinson's Disease Diagnosis Based on Multivariate Deep Features of Speech Signal. , 2018, , .		22
67	An Intelligent Computing Based Approach for Parkinson Disease Detection. , 2018, , .		3
68	Machine Intelligence in Healthcare and Medical Cyber Physical Systems: A Survey. IEEE Access, 2018, 6, 46419-46494.	4.2	48
69	Influence of sampling rate on voice analysis for assessment of Parkinson's disease. Journal of the Acoustical Society of America, 2018, 144, 1416-1423.	1.1	6
70	Early detection of Parkinson's disease through patient questionnaire and predictive modelling. International Journal of Medical Informatics, 2018, 119, 75-87.	3.3	50
71	Parkinson Disease Identification Using Residual Networks and Optimum-Path Forest. , 2018, , .		19
72	Optimized cuttlefish algorithm for diagnosis of Parkinson's disease. Cognitive Systems Research, 2018, 52, 36-48.	2.7	157

#	ARTICLE	IF	CITATIONS
73	An Intelligent Parkinsonâ€™s Disease Diagnostic System Based on a Chaotic Bacterial Foraging Optimization Enhanced Fuzzy KNN Approach. Computational and Mathematical Methods in Medicine, 2018, 2018, 1-24.	1.3	92
74	Deep Multi-Layer Perceptron Classifier for Behavior Analysis to Estimate Parkinsonâ€™s Disease Severity Using Smartphones. IEEE Access, 2018, 6, 36825-36833.	4.2	92
75	Musical Feature Based Classification of Parkinson's Disease Using Dysphonic Speech. , 2018, , .		3
76	Thomson Multitaper MFCC and PLP voice features for early detection of Parkinson disease. Biomedical Signal Processing and Control, 2018, 46, 293-301.	5.7	29
77	Understanding diseases as increased heterogeneity: a complex network computational framework. Journal of the Royal Society Interface, 2018, 15, 20180405.	3.4	10
78	Evaluation of Short-Term Cepstral Based Features for Detection of Parkinsonâ€™s Disease Severity Levels through Speech signals. IOP Conference Series: Materials Science and Engineering, 2018, 318, 012039.	0.6	4
79	Feature-driven machine learning to improve early diagnosis of Parkinson's disease. Expert Systems With Applications, 2018, 110, 182-190.	7.6	107
80	VIBNN. , 2018, , .		39
81	Improving Parkinson's Disease Diagnosis with Machine Learning Methods. , 2019, , .		21
82	Fuzzy Classification Methods Based Diagnosis of Parkinsonâ€™s disease from Speech Test Cases. Current Aging Science, 2019, 12, 100-120.	1.2	14
83	Early diagnosis of Parkinsonâ€™s disease from multiple voice recordings by simultaneous sample and feature selection. Expert Systems With Applications, 2019, 137, 22-28.	7.6	95
84	Detecting the impact of subject characteristics on machine learning-based diagnostic applications. Npj Digital Medicine, 2019, 2, 99.	10.9	46
85	Evaluation of PNN pattern-layer activation function approximations in different training setups. International Journal of Speech Technology, 2019, 22, 1039-1049.	2.2	4
86	Weighted Local Discriminant Preservation Projection Ensemble Algorithm With Embedded Micro-Noise. IEEE Access, 2019, 7, 143814-143828.	4.2	1
87	Parkinson's diagnosis using ant-lion optimisation algorithm. International Journal of Innovative Computing and Applications, 2019, 10, 138.	0.2	12
88	Automated Detection of Parkinsonâ€™s Disease Based on Multiple Types of Sustained Phonations Using Linear Discriminant Analysis and Genetically Optimized Neural Network. IEEE Journal of Translational Engineering in Health and Medicine, 2019, 7, 1-10.	3.7	132
89	Selection of voice parameters for Parkinson's disease prediction from collected mobile data. , 2019, , .		12
90	Deep Learning-Based Parkinsonâ€™s Disease Classification Using Vocal Feature Sets. IEEE Access, 2019, 7, 115540-115551.	4.2	177

#	ARTICLE	IF	CITATIONS
91	Incremental Feature Extraction Based on Gaussian Maximum Likelihood. , 2019, , .		2
92	Multimodal Detection of Parkinson Disease based on Vocal and Improved Spiral Test. , 2019, , .		15
93	PDVocal. , 2019, , .		33
94	Fusion of WPT and MFCC feature extraction in Parkinsonâ€™s disease diagnosis. Technology and Health Care, 2019, 27, 363-372.	1.2	34
95	Minotaur. , 2019, , .		13
96	Intelligent Speech Processing in the Time-Frequency Domain. , 2019, , 153-173.		1
97	Feature Selection Based on L1-Norm Support Vector Machine and Effective Recognition System for Parkinsonâ€™s Disease Using Voice Recordings. IEEE Access, 2019, 7, 37718-37734.	4.2	114
98	Cortical Visual Performance Test Setup for Parkinsonâ€™s Disease Based on Motion Blur Orientation. Parkinson's Disease, 2019, 2019, 1-8.	1.1	0
99	Detecting Parkinsonâ€™s disease with sustained phonation and speech signals using machine learning techniques. Pattern Recognition Letters, 2019, 125, 55-62.	4.2	150
100	Towards an automatic and early detection of Parkinsonâ€™s disease: Modeling of a polar coordinates system based on spiral tests. AIP Conference Proceedings, 2019, , .	0.4	4
101	Gradient Boosted Tree Based Feature Selection and Parkinsonâ€™s Disease Classification. , 2019, , .		1
102	Detecting Parkinsonian Symptoms using Data Analysis. , 2019, , .		0
103	Identification of Normophonic and Dysphonic Groups in Self-Organized Maps. , 2019, , .		0
104	Multi-objective Association Analysis of Parkinson Disease with Intelligent Optimization Algorithms. , 2019, , .		1
105	Parkinsonâ€™s Disease Severity Estimation on Hungarian Speech Using Various Speech Tasks. , 2019, , .		5
106	Diagnosis of Parkinson disease using the wavelet transform and MFCC and SVM classifier. , 2019, , .		8
107	Comparative Evaluation of Training Schemes for the Locally Recurrent Probabilistic Neural Network. , 2019, , .		0
108	A Multi-model Framework for Evaluating Type of Speech Samples having Complementary Information about Parkinson's Disease. , 2019, , .		19

#	ARTICLE	IF	CITATIONS
109	A survey on computer-assisted Parkinson's Disease diagnosis. Artificial Intelligence in Medicine, 2019, 95, 48-63.	6.5	98
110	Recognition of audible disruptive behavior from people with dementia. Personal and Ubiquitous Computing, 2019, 23, 145-157.	2.8	8
111	Diagnosis of Parkinson's disease using modified grey wolf optimization. Cognitive Systems Research, 2019, 54, 100-115.	2.7	104
112	Classifying Parkinson's Disease Based on Acoustic Measures Using Artificial Neural Networks. Sensors, 2019, 19, 16.	3.8	62
113	Voice signal processing for detecting possible early signs of Parkinson's disease in patients with rapid eye movement sleep behavior disorder. International Journal of Speech Technology, 2019, 22, 121-129.	2.2	7
114	A comparative analysis of speech signal processing algorithms for Parkinson's disease classification and the use of the tunable Q-factor wavelet transform. Applied Soft Computing Journal, 2019, 74, 255-263.	7.2	325
115	Automatic detection of Parkinson's disease based on acoustic analysis of speech. Engineering Applications of Artificial Intelligence, 2019, 77, 148-158.	8.1	101
116	Analysis of Jitter and Shimmer for Parkinson's Disease Diagnosis Using Telehealth. Advances in Intelligent Systems and Computing, 2019, , 711-721.	0.6	3
117	A comprehensive empirical comparison of hubness reduction in high-dimensional spaces. Knowledge and Information Systems, 2019, 59, 137-166.	3.2	14
118	Parkinson disease prediction using intrinsic mode function based features from speech signal. Biocybernetics and Biomedical Engineering, 2020, 40, 249-264.	5.9	92
119	Characterizing Parkinson's Disease from Speech Samples Using Deep Structured Learning. Advances in Intelligent Systems and Computing, 2020, , 137-146.	0.6	0
120	A robust multilayer extreme learning machine using kernel risk-sensitive loss criterion. International Journal of Machine Learning and Cybernetics, 2020, 11, 197-216.	3.6	21
122	A hidden Markov model addressing measurement errors in the response and replicated covariates for continuous nondecreasing processes. Biostatistics, 2020, 21, 743-757.	1.5	4
123	Comparing of deep neural networks and extreme learning machines based on growing and pruning approach. Expert Systems With Applications, 2020, 140, 112875.	7.6	42
124	An improved sex-specific and age-dependent classification model for Parkinson's diagnosis using handwriting measurement. Computer Methods and Programs in Biomedicine, 2020, 189, 105305.	4.7	39
125	The Construction of a Majority-Voting Ensemble Based on the Interrelation and Amount of Information of Features. Computer Journal, 2020, 63, 1756-1774.	2.4	10
126	Sparse Hierarchical Interaction Learning with Epigraphical Projection. Journal of Signal Processing Systems, 2020, 92, 637-654.	2.1	0
127	Dynamic cognitive workload assessment for fighter pilots in simulated fighter aircraft environment using EEG. Biomedical Signal Processing and Control, 2020, 61, 102018.	5.7	17

#	ARTICLE	IF	CITATIONS
128	Diagnosing Parkinson's disease with speech signal based on convolutional neural network. International Journal of Computer Applications in Technology, 2020, 63, 348.	0.5	10
130	Parallel Representation Learning for the Classification of Pathological Speech: Studies on Parkinson's Disease and Cleft Lip and Palate. Speech Communication, 2020, 122, 56-67.	2.8	20
131	KPLS Optimization With Nature-Inspired Metaheuristic Algorithms. IEEE Access, 2020, 8, 157482-157492.	4.2	6
132	Evaluation of train and test performance of machine learning algorithms and Parkinson diagnosis with statistical measurements. Medical and Biological Engineering and Computing, 2020, 58, 2775-2788.	2.8	30
133	Estimation of Parkinson's disease severity using speech features and extreme gradient boosting. Medical and Biological Engineering and Computing, 2020, 58, 2757-2773.	2.8	21
134	Parkinson's Disease Detection Based on Spectrogram-Deep Convolutional Generative Adversarial Network Sample Augmentation. IEEE Access, 2020, 8, 206888-206900.	4.2	15
135	A Review of Disorder Voice Processing Toward to Applications. Journal of Physics: Conference Series, 2020, 1624, 032012.	0.4	1
136	Parkinson's Disease Detection Using Voice and Spiral Drawing Dataset. , 2020, , .		2
137	A Novel Framework of Two Successive Feature Selection Levels Using Weight-Based Procedure for Voice-Loss Detection in Parkinson's Disease. IEEE Access, 2020, 8, 76193-76203.	4.2	22
138	Feature Selection with Artificial Bee Colony Algorithms for Classifying Parkinson's Diseases. Proceedings of the International Neural Networks Society, 2020, , 338-351.	0.6	4
139	Recognition of the parkinson's disease using a hybrid feature selection approach. Journal of Intelligent and Fuzzy Systems, 2020, 39, 1319-1339.	1.4	16
140	Optimized grass hopper algorithm for diagnosis of Parkinson's disease. SN Applied Sciences, 2020, 2, 1.	2.9	13
141	Hilbert spectrum analysis for automatic detection and evaluation of Parkinson's speech. Biomedical Signal Processing and Control, 2020, 61, 102050.	5.7	38
142	Optimized ANFIS Model Using Hybrid Metaheuristic Algorithms for Parkinson's Disease Prediction in IoT Environment. IEEE Access, 2020, 8, 119252-119270.	4.2	61
143	A vital neurodegenerative disorder detection using speech cues. Journal of Intelligent and Fuzzy Systems, 2020, 38, 6337-6345.	1.4	5
144	Deep Feature Extraction From the Vocal Vectors Using Sparse Autoencoders for Parkinson's Classification. IEEE Access, 2020, 8, 27821-27830.	4.2	44
145	Growing and Pruning Based Deep Neural Networks Modeling for Effective Parkinson's Disease Diagnosis. CMES - Computer Modeling in Engineering and Sciences, 2020, 122, 619-632.	1.1	1
146	Clustering method for production of Z-number based if-then rules. Information Sciences, 2020, 520, 155-176.	6.9	35

#	ARTICLE	IF	CITATIONS
147	Validation of freely-available pitch detection algorithms across various noise levels in assessing speech captured by smartphone in Parkinson's disease. Biomedical Signal Processing and Control, 2020, 58, 101831.	5.7	22
148	Automatic Parkinson disease detection at early stages as a pre-diagnosis tool by using classifiers and a small set of vocal features. Biocybernetics and Biomedical Engineering, 2020, 40, 505-516.	5.9	55
149	Stacked auto-encoder based Time- frequency features of Speech signal for Parkinson disease prediction. , 2020, , .		6
150	Association analysis of Parkinson disease with vocal change characteristics using multi-objective metaheuristic optimization. Medical Hypotheses, 2020, 141, 109722.	1.5	10
151	Speech Based Estimation of Parkinson's Disease Using Gaussian Processes and Automatic Relevance Determination. Neurocomputing, 2020, 401, 173-181.	5.9	39
152	Fuzzy recurrence plot-based analysis of dynamic and static spiral tests of Parkinson's disease patients. Neural Computing and Applications, 2021, 33, 349-360.	5.6	29
153	mHealth Technologies Towards Parkinson's Disease Detection and Monitoring in Daily Life: A Comprehensive Review. IEEE Reviews in Biomedical Engineering, 2021, 14, 71-81.	18.0	18
154	Privacy-Preserving Cost-Sensitive Learning. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 2105-2116.	11.3	10
155	Review of automated emotion-based quantification of facial expression in Parkinson's patients. Visual Computer, 2021, 37, 1151-1167.	3.5	27
156	The detection of Parkinson disease using the genetic algorithm and SVM classifier. Applied Acoustics, 2021, 171, 107528.	3.3	83
157	Local discriminant preservation projection embedded ensemble learning based dimensionality reduction of speech data of Parkinson's disease. Biomedical Signal Processing and Control, 2021, 63, 102165.	5.7	20
158	A Comparative Analysis of Machine Learning classifiers for Dysphonia-based classification of Parkinson's Disease. International Journal of Data Science and Analytics, 2021, 11, 69-83.	4.1	20
159	Handwriting dynamics assessment using deep neural network for early identification of Parkinson's disease. Future Generation Computer Systems, 2021, 117, 234-244.	7.5	67
160	Gaining Outlier Resistance With Progressive Quantiles: Fast Algorithms and Theoretical Studies. Journal of the American Statistical Association, 2022, 117, 1282-1295.	3.1	6
161	Multi-Variate vocal data analysis for Detection of Parkinson disease using Deep Learning. Neural Computing and Applications, 2021, 33, 4849-4864.	5.6	28
162	Intelligent IoT Framework for Indoor Healthcare Monitoring of Parkinson's Disease Patient. IEEE Journal on Selected Areas in Communications, 2021, 39, 593-602.	14.0	33
163	Hybrid Feature Embedded Sparse Stacked Autoencoder and Manifold Dimensionality Reduction Ensemble for Mental Health Speech Recognition. IEEE Access, 2021, 9, 28729-28741.	4.2	5
164	The Diagnosis of Parkinson's Disease Based on Gait, Speech Analysis and Machine Learning Techniques. , 2021, , .		8

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165	Defining Optimal Exercises for Efficient Detection of Parkinson's Disease Using Machine Learning and Wearable Sensors. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	14
166	Early Detection of Parkinson's Disease from Micrographic Static Hand Drawings. Lecture Notes in Computer Science, 2021, , 433-447.	1.3	7
167	Automatic Selection of the Most Characterizing Features for Detecting COPD in Speech. Lecture Notes in Computer Science, 2021, , 737-748.	1.3	1
168	CMBA-SVM: a clinical approach for Parkinson disease diagnosis. International Journal of Information Technology (Singapore), 2021, 13, 647-655.	2.7	16
169	Â–zellik seÂ–şimi ve Derin Â–ÿrenmeye Dayalı Parkinson Hastaları Tespiti. European Journal of Science and Technology, 0, , .	0.5	0
170	Diagnosis of Parkinson's Disease with Acoustic Sounds by Rule Based Model. Lecture Notes on Data Engineering and Communications Technologies, 2021, , 59-75.	0.7	0
171	A Review and Experimental Comparison of Multivariate Decision Trees. IEEE Access, 2021, 9, 110451-110479.	4.2	13
172	Probabilistic Neural Network-based Model for Identification of Parkinson's Disease by using Voice Profile and Personal Data. Arabian Journal for Science and Engineering, 2021, 46, 3383-3407.	3.0	6
173	Detecting Parkinson's Disease According to Gender Using Speech Signals. Lecture Notes in Computer Science, 2021, , 414-425.	1.3	2
174	Parkinson disease detection using energy direction features based on EMD from voice signal. Biocybernetics and Biomedical Engineering, 2021, 41, 127-141.	5.9	40
175	A Deep Learning Based Method for Parkinson's Disease Detection Using Dynamic Features of Speech. IEEE Access, 2021, 9, 10239-10252.	4.2	58
176	Systems Medicine in Parkinson's Disease: Joining Efforts to Change History. , 2021, , 1-14.		0
177	Prediction of Parkinson's Disease Using Improved Radial Basis Function Neural Network. Computers, Materials and Continua, 2021, 68, 3101-3119.	1.9	4
178	Parkinson's Disease Detection from Voice and Speech Data Using Machine Learning. Algorithms for Intelligent Systems, 2021, , 445-456.	0.6	2
179	Detecting Effect of Levodopa in Parkinson's Disease Patients Using Sustained Phonemes. IEEE Journal of Translational Engineering in Health and Medicine, 2021, 9, 1-9.	3.7	16
180	Early detection of Parkinson's disease using data mining techniques from multimodal clinical data. , 2021, , 213-228.		1
181	X-Vectors: New Quantitative Biomarkers for Early Parkinson's Disease Detection From Speech. Frontiers in Neuroinformatics, 2021, 15, 578369.	2.5	34
182	Classification of Parkinson disease using binary Rao optimization algorithms. Expert Systems, 2021, 38, e12674.	4.5	21

#	ARTICLE	IF	CITATIONS
183	Insight into an unsupervised two-step sparse transfer learning algorithm for speech diagnosis of Parkinson's disease. <i>Neural Computing and Applications</i> , 2021, 33, 9733-9750.	5.6	3
185	Early diagnosis of Parkinson's disease based on non-motor symptoms: a descriptive and factor analysis. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 0, , 1.	4.9	15
186	Identification of gene variant associated with Parkinson's disease using genomic databases. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 0, , 1.	4.9	0
187	Parkinson's Disease Diagnosis in Cepstral Domain Using MFCC and Dimensionality Reduction with SVM Classifier. <i>Mobile Information Systems</i> , 2021, 2021, 1-10.	0.6	22
188	A Neuromotor to Acoustical Jaw-Tongue Projection Model With Application in Parkinson's Disease Hypokinetic Dysarthria. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 622825.	2.0	1
189	Hybrid Machine Learning Classifier and Ensemble Techniques to Detect Parkinson's Disease Patients. <i>SN Computer Science</i> , 2021, 2, 1.	3.6	10
190	Machine Learning Approaches for Detection and Diagnosis of Parkinson's Disease - A Review. , 2021, , .		7
191	Embedded stacked group sparse autoencoder ensemble with L1 regularization and manifold reduction. <i>Applied Soft Computing Journal</i> , 2021, 101, 107003.	7.2	11
192	A new approach: information gain algorithm-based k-nearest neighbors hybrid diagnostic system for Parkinson's disease. <i>Physical and Engineering Sciences in Medicine</i> , 2021, 44, 511-524.	2.4	8
193	Advances in Parkinson's Disease detection and assessment using voice and speech: A review of the articulatory and phonatory aspects. <i>Biomedical Signal Processing and Control</i> , 2021, 66, 102418.	5.7	80
194	Analysis of voice as an assisting tool for detection of Parkinson's disease and its subsequent clinical interpretation. <i>Biomedical Signal Processing and Control</i> , 2021, 66, 102415.	5.7	31
195	Deep learning-based scheme to diagnose Parkinson's disease. <i>Expert Systems</i> , 2022, 39, e12739.	4.5	18
196	Machine Learning for the Diagnosis of Parkinson's Disease: A Review of Literature. <i>Frontiers in Aging Neuroscience</i> , 2021, 13, 633752.	3.4	150
197	Performance Comparison of Different Kernel Tricks Based on SVM Approach for Parkinson's Disease Detection. , 2021, , .		2
198	Parkinson's Detection Using Machine Learning. , 2021, , .		8
199	PRAUTOCAL corpus: a corpus for the study of Down syndrome prosodic aspects. <i>Language Resources and Evaluation</i> , 0, , 1.	2.7	3
200	ReliefE: feature ranking in high-dimensional spaces via manifold embeddings. <i>Machine Learning</i> , 2022, 111, 273-317.	5.4	3
201	A Hybrid Feature Selection Algorithm Based on a Discrete Artificial Bee Colony for Parkinson's Diagnosis. <i>ACM Transactions on Internet Technology</i> , 2021, 21, 1-22.	4.4	16

#	ARTICLE	IF	CITATIONS
202	Vocal Feature Extraction-Based Artificial Intelligent Model for Parkinsonâ€™s Disease Detection. Diagnostics, 2021, 11, 1076.	2.6	28
203	Cloudâ€assisted Parkinson disease identification system for remote patient monitoring and diagnosis in the smart healthcare applications. Concurrency Computation Practice and Experience, 2021, 33, e6419.	2.2	6
204	CROWD: Crow Search and Deep Learning based Feature Extractor for Classification of Parkinsonâ€™s Disease. ACM Transactions on Internet Technology, 2021, 21, 1-18.	4.4	20
205	Voice-Based Deep Learning Medical Diagnosis System for Parkinson's Disease Prediction. , 2021, , .		10
206	GaborPDNet: Gabor Transformation and Deep Neural Network for Parkinsonâ€™s Disease Detection Using EEG Signals. Electronics (Switzerland), 2021, 10, 1740.	3.1	47
207	Artificial intelligence in neurodegenerative diseases: A review of available tools with a focus on machine learning techniques. Artificial Intelligence in Medicine, 2021, 117, 102081.	6.5	53
208	A novel pre-processing technique in pathologic voice detection: Application to Parkinsonâ€™s disease phonation. Biomedical Signal Processing and Control, 2021, 68, 102604.	5.7	16
209	Voice Analysis for Diagnosis and Monitoring Parkinsonâ€™s Disease. Series in Bioengineering, 2022, , 119-133.	0.6	3
210	Few-shot learning of Parkinsonâ€™s disease speech data with optimal convolution sparse kernel transfer learning. Biomedical Signal Processing and Control, 2021, 69, 102850.	5.7	8
211	Remote smartphone monitoring of Parkinsonâ€™s disease and individual response to therapy. Nature Biotechnology, 2022, 40, 480-487.	17.5	73
212	Deep dual-side learning ensemble model for Parkinson speech recognition. Biomedical Signal Processing and Control, 2021, 69, 102849.	5.7	19
213	Regularization based discriminative feature pattern selection for the classification of Parkinson cases using machine learning. Bio-Algorithms and Med-Systems, 2021, 17, 181-189.	2.4	1
214	Non-negative matrix factorization-based time-frequency feature extraction of voice signal for Parkinson's disease prediction. Computer Speech and Language, 2021, 69, 101216.	4.3	35
215	Parkinsonâ€™s detection based on combined CNN and LSTM using enhanced speech signals with Variational mode decomposition. Biomedical Signal Processing and Control, 2021, 70, 103006.	5.7	36
217	Automatic and non-invasive Parkinsonâ€™s disease diagnosis and severity rating using LSTM network. Applied Soft Computing Journal, 2021, 108, 107463.	7.2	33
218	Using novel method: Real Cepstral Discrete Cosine Transform, for detecting Parkinson from multiple system atrophy, other neurological diseases and healthy cases using voice analysis. International Journal of Speech Technology, 2022, 25, 163-172.	2.2	2
219	Application of AI for Analysis of Parkinsonâ€™s Disease. International Journal of Soft Computing and Engineering, 2021, 11, 33-39.	0.8	1
220	Transfer learning helps to improve the accuracy to classify patients with different speech disorders in different languages. Pattern Recognition Letters, 2021, 150, 272-279.	4.2	10

#	ARTICLE	IF	CITATIONS
221	Classification of Parkinson Disease Based on Analysis and Synthesis of Voice Signal. International Journal of Healthcare Information Systems and Informatics, 2021, 16, 1-22.	0.9	6
222	Fuzzy Jaccard Index: A robust comparison of ordered lists. Applied Soft Computing Journal, 2021, 113, 107849.	7.2	7
223	Quantum ReLU activation for Convolutional Neural Networks to improve diagnosis of Parkinsonâ€™s disease and COVID-19. Expert Systems With Applications, 2022, 187, 115892.	7.6	30
224	Diagnostic Sparse Connectivity Networks with Regularization Template. IEEE Transactions on Knowledge and Data Engineering, 2021, , 1-1.	5.7	2
226	Automatic Detection of Parkinsonâ€™s Disease from Speech Using Acoustic, Prosodic and Phonetic Features. Advances in Intelligent Systems and Computing, 2021, , 80-89.	0.6	5
227	Medical Diagnosis of Parkinson Disease Driven by Multiple Preprocessing Technique with Scarce Lee Silverman Voice Treatment Data. Lecture Notes in Electrical Engineering, 2019, , 407-421.	0.4	8
228	Classification, Prediction, and Monitoring of Parkinsonâ€™s disease using Computer Assisted Technologies: A Comparative Analysis. Engineering Applications of Artificial Intelligence, 2020, 96, 103955.	8.1	31
229	A new outlier detection method based on convex optimization: application to diagnosis of Parkinsonâ€™s disease. Journal of Applied Statistics, 2021, 48, 2421-2440.	1.3	14
231	VIBNN. ACM SIGPLAN Notices, 2018, 53, 476-488.	0.2	32
232	PDLens. , 2020, , .		11
233	Watermarking of Parkinson Disease Speech in Cloud-Based Healthcare Framework. International Journal of Distributed Sensor Networks, 2015, 2015, 1-9.	2.2	5
234	Analyzing the effectiveness of vocal features in early telediagnosis of Parkinson's disease. PLoS ONE, 2017, 12, e0182428.	2.5	73
235	Evolutionary Wavelet Neural Network ensembles for breast cancer and Parkinsonâ€™s disease prediction. PLoS ONE, 2018, 13, e0192192.	2.5	29
236	Voice analysis for detecting patients with Parkinsonâ€™s disease using the hybridization of the best acoustic features. International Journal on Electrical Engineering and Informatics, 2016, 8, 108-116.	0.5	7
237	Detecting patients with Parkinson's disease using PLP and VQ. , 2015, , .		6
238	An Intelligent Mobile-Enabled System for Diagnosing Parkinson Disease: Development and Validation of a Speech Impairment Detection System. JMIR Medical Informatics, 2020, 8, e18689.	2.6	23
239	Parkinson HastalÄ±ÄŸÄ±n Tespitinde FarklÄ± BoyutsallÄ±k Ä°ndirgeme YÄ°ntemlerinin KarÄ±laÅŸtırılmasÄ±. European Journal of Science and Technology, 0, , 1164-1172.	0.5	2
240	Parkinson HastalÄ±ÄŸÄ±n Derecesi ile YÄ°rÄ±yÄ±lÄ± DeÄŸiÅŸkenliÄŸi ArasÄ±ndaki Ä°liÅŸkinin BulanÄ±k TekrarlÄ±lÄ±k GrafiÄŸi AraÅŸtırılmasÄ±. European Journal of Science and Technology, 0, , 410-419.	0.5	1

#	ARTICLE	IF	CITATIONS
242	An ensemble method for diagnosis of Parkinson's disease based on voice measurements. Journal of Medical Signals and Sensors, 2019, 9, 221.	1.0	17
243	A hybrid method for the diagnosis and classifying parkinson's patients based on timeâ€“frequency domain properties and K-nearest neighbor. Journal of Medical Signals and Sensors, 2020, 10, 60.	1.0	13
244	Voice Parameter Analysis for the disease detection. IOSR Journal of Electronics and Communication Engineering, 2014, 9, 48-55.	0.1	11
245	Exploiting spectral and cepstral handwriting features on diagnosing Parkinsonâ€™s disease. IEEE Access, 2021, , 1-1.	4.2	7
246	A Comparison of Cepstral Features in the Detection of Pathological Voices by Varying the Input and Filterbank of the Cepstrum Computation. IEEE Access, 2021, 9, 135953-135963.	4.2	18
247	An adaptive intelligent diagnostic system to predict early stage of parkinson's disease using two-stage dimension reduction with genetically optimized lightgbm algorithm. Neural Computing and Applications, 2022, 34, 4567-4593.	5.6	9
248	Sharing Practices for Datasets Related to Accessibility and Aging. , 2021, 1, .		6
250	Robust Methods for Comparing K Independent Groups. Turkiye Klinikleri Journal of Biostatistics, 2016, 8, 143-151.	0.2	1
251	Parkinsonâ€™s Disease Identification Using Restricted Boltzmann Machines. Lecture Notes in Computer Science, 2017, , 70-80.	1.3	9
252	Speech Recognition Using Feed Forward Neural Network and Principle Component Analysis. Advances in Intelligent Systems and Computing, 2018, , 228-239.	0.6	3
253	A Study on the Diagnosis of Parkinsonâ€™s Disease using Digitized Wacom Graphics Tablet Dataset. International Journal of Information Technology and Computer Science, 2017, 9, 45-51.	1.0	4
254	A Study on Diagnosis of Parkinsonâ€™s Disease from Voice Dysphonias. International Journal of Information Technology and Computer Science, 2018, 10, 36-43.	1.0	0
255	Convolutional Neural Networks and a Transfer Learning Strategy to Classify Parkinsonâ€™s Disease from Speech in Three Different Languages. Lecture Notes in Computer Science, 2019, , 697-706.	1.3	14
257	PARKÂ“NSON HASTALIÄžİNİN SES SÄ“NYALLERÄ“ ÂœZERÄ“NDEN MAKÄ“NE Â–ÄžRENMESÄ“ TEKNÄ“KLERÄ“ Â“LE TANIMLANMASI. Â–m Halisdemir Âœniversitesi MÄ“hendislik Bilimleri Dergisi, 0, , .	0.5	5
258	A numerical study on group quantile regression models. Communications for Statistical Applications and Methods, 2019, 26, 359-370.	0.3	0
259	Temel BileÅŸen Analizi YÄ“ntemleri Kullanarak Parkinson HastalÄ±ÄŸÄ±n Otomatik TeÅŸhisi. European Journal of Science and Technology, 0, , 294-300.	0.5	4
260	AQDD Â–zelliklerine BBA YÄ“ntemleri Uygulanarak Parkinson HastalÄ±ÄŸÄ±n Otomatik TeÅŸhisi. Bilecik Âžeyh Edebali Âœniversitesi Fen Bilimleri Dergisi, 0, 6, 50-58.	0.6	1
261	Parkinson HastalÄ±ÄŸÄ±n Â–şin Â–znitelik SeÅŸiminin Â–nemi. Academic Platform Journal of Engineering and Science, 0, , 175-180.	0.6	1

#	ARTICLE	IF	CITATIONS
262	The Role of Dysphonia and Voice Recordings in Diagnosis of Parkinsonâ€™s Disease. International Journal of Applied Mathematics Electronics and Computers, 0, , 21-26.	0.3	1
263	Data-Driven Analysis of Parkinson's Disease and its Detection at an Early Stage. , 2020, , .		1
264	RSESLIBKNN MAKÂ°NE Ã–RENMESÂ° YÂ–NTEMÂ° KULLANILARAK PARKÂ°NSON HASTALIÄŽİNİN TANISI. Ã–mer Halisdemir Ãœniversitesi MÃ¼hendislik Bilimleri Dergisi, 0, , .	0.5	0
265	MMDD-Ensemble: A Multimodal Dataâ€Driven Ensemble Approach for Parkinson's Disease Detection. Frontiers in Neuroscience, 2021, 15, 754058.	2.8	29
266	An ensembleâ€based feature selection framework for early detection of Parkinson's disease based on feature correlation analysis. Mathematical Methods in the Applied Sciences, 0, , .	2.3	0
267	Parkinsonâ€™s Disease Diagnosis using Spiral Test on Digital Tablets. International Journal of Advanced Computer Science and Applications, 2020, 11, .	0.7	0
268	Bozkurt Optimizasyon YÃ¼nteminin Veri KÃ¼lmelemeye UyarlanmasÃ±. Journal of Polytechnic, 0, , .	0.7	3
269	Detection of Parkinsonâ€™s Disease (PD) Based On Speech Recordings using Machine Learning Techniques. , 2020, , .		1
270	A Review of the Use of Prosodic Aspects of Speech for the Automatic Detection and Assessment of Parkinsonâ€™s Disease. Communications in Computer and Information Science, 2020, , 42-59.	0.5	3
271	Speech Recognition for Individuals with Voice Disorders. , 2021, , 115-144.		1
272	Feature Mapping and Deep Long Short Term Memory Network-Based Efficient Approach for Parkinsonâ€™s Disease Diagnosis. IEEE Access, 2021, 9, 149456-149464.	4.2	14
273	Machine Learning Methods for Managing Parkinsonâ€™s Disease. Learning and Analytics in Intelligent Systems, 2020, , 263-294.	0.6	0
274	Pathological Voice Acquisition. , 2020, , 29-45.		0
275	Classification of Parkinson's Disease by Analyzing Multiple Vocal Features Sets. , 2020, , .		8
276	mFAST. , 2020, , .		1
278	Parkinson HastalÃ±n TeÃ¼hisinde YSA Destekli Karar Sistemi BaÃ¼arÃ±mÃ±. European Journal of Science and Technology, 0, , 8-14.	0.5	0
279	Detection of Parkinsons Disease Via a Multi-Modal Approach. , 2021, , .		2
280	Recognition of Parkinson's Disease Based on Residual Neural Network and Voice Diagnosis. , 2021, , .		1

#	ARTICLE	IF	CITATION
281	Covid19â€œMexicanâ€œPatients' Dataset (Covid19MPD) Classification and Prediction Using Feature Importance. Concurrency Computation Practice and Experience, 2021, , e6675.	2.2	6
282	Parkinson HastalÄ±ÄŸÄ± TeÄŸhisi Ä°ÅŸin Makine Ä–ÄŸrenmesi TabanlıÄ± Yeni Bir YÄŸntem. DÄŸzce Äœniversitesi Bilim Ve Teknoloji Dergisi, 2020, 8, 1877-1893.	0.7	2
284	The phonetic footprint of Parkinsonâ€™s disease. Computer Speech and Language, 2022, 72, 101321.	4.3	3
285	Vocal test Analysis for Assessing Parkinson's Disease at Early Stage. , 2021, , .		3
286	Implementation and Evaluation of Learning Classifiers in Detecting Parkinson's Disease Using Extensive Speech Parameters. , 2021, , .		0
287	A mobile-assisted voice condition analysis system for Parkinsonâ€™s disease: assessment of usability conditions. BioMedical Engineering OnLine, 2021, 20, 114.	2.7	12
288	Feature Selection Using Multiple Ranks with Majority Vote-Based Relative Aggregate Scoring Model for Parkinson Dataset. Lecture Notes in Networks and Systems, 2022, , 1-19.	0.7	2
289	Exploring unsupervised multivariate time series representation learning for chronic disease diagnosis. International Journal of Data Science and Analytics, 0, , 1.	4.1	4
290	Evaluating the effect of Parkinson's disease on jitter and shimmer speech features. Advanced Biomedical Research, 2021, 10, 54.	0.5	1
291	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
292	A Simple and Effective Approach Based on a Multi-Level Feature Selection for Automated Parkinsonâ€™s Disease Detection. Journal of Personalized Medicine, 2022, 12, 55.	2.5	13
293	Fast Sparse Connectivity Network Adaption via Meta-Learning. , 2020, , .		3
294	Diagnosis of Parkinsonâ€™s Disease Using Deep Neural Network Model. , 2021, , .		0
295	Things to Consider When Automatically Detecting Parkinsonâ€™s Disease Using the Phonation of Sustained Vowels: Analysis of Methodological Issues. Applied Sciences (Switzerland), 2022, 12, 991.	2.5	17
296	Intelligent approach of score-based artificial fish swarm algorithm (SAFSA) for Parkinson's disease diagnosis. International Journal of Intelligent Computing and Cybernetics, 2022, 15, 540-561.	2.7	4
297	Classification of Parkinsonâ€™s disease patients based on spectrogram using local binary pattern descriptors. Journal of Physics: Conference Series, 2022, 2153, 012014.	0.4	0
298	An Exploration on Feature Extraction and Classification Techniques for Dysphonic Speech Disorder in Parkinsonâ€™s Disease. Lecture Notes in Networks and Systems, 2022, , 33-48.	0.7	4
299	Parkinson's disease patients with freezing of gait have more severe voice impairment than non-freezers during âœœON stateâœœ. Journal of Neural Transmission, 2022, 129, 277-286.	2.8	4

#	ARTICLE	IF	CITATIONS
300	The ForEx++ based decision tree ensemble approach for robust detection of Parkinsonâ€™s disease. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 11429-11453.	4.9	5
301	Speech analysis for the detection of Parkinsonâ€™s disease by combined use of empirical mode decomposition, Mel frequency cepstral coefficients, and the K-nearest neighbor classifier. ITM Web of Conferences, 2022, 43, 01019.	0.5	2
303	A novel sample and feature dependent ensemble approach for Parkinsonâ€™s disease detection. Neural Computing and Applications, 2023, 35, 15997-16010.	5.6	13
304	Automated methods for diagnosis of Parkinsonâ€™s disease and predicting severity level. Neural Computing and Applications, 2023, 35, 14499-14534.	5.6	20
305	An I-vector-based approach for discriminating between patients with Parkinson's disease and healthy people. , 2022, , .		1
306	A Comprehensive Survey on the Detection, Classification, and Challenges of Neurological Disorders. Biology, 2022, 11, 469.	2.8	21
307	Neurogenerative Disease Diagnosis in Cepstral Domain Using MFCC with Deep Learning. Computational and Mathematical Methods in Medicine, 2022, 2022, 1-15.	1.3	4
308	Detection of Parkinson's Disease Using Vocal Features: An Eigen Approach. , 2021, , .		3
309	Early- Detection of Parkinsonâ€™s Disease by Patient Voice Modulation Analysis through MFCC Feature Extraction Technique. , 2021, , .		2
310	Weighted Hybrid Feature Reduction Embedded with Ensemble Learning for Speech Data of Parkinsonâ€™s Disease. Mathematics, 2021, 9, 3172.	2.2	2
311	Hierarchical Boosting Dual-Stage Feature Reduction Ensemble Model for Parkinsonâ€™s Disease Speech Data. Diagnostics, 2021, 11, 2312.	2.6	6
312	Suitability of Articulation Analysis for Extracting Speech Signals Features of Chinese Speaking Patients With Parkinson. , 2021, , .		0
313	Prediction of neuro-degenerative disorders using sunflower optimisation algorithm and Kernel extreme learning machine: A case-study with Parkinsonâ€™s and Alzheimerâ€™s disease. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2022, 236, 438-453.	1.8	2
315	Prediction of Parkinsonâ€™s disease based on artificial neural networks using speech datasets. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 13571-13584.	4.9	5
317	End-to-end deep learning approach for Parkinsonâ€™s disease detection from speech signals. Biocybernetics and Biomedical Engineering, 2022, 42, 556-574.	5.9	29
318	An investigation about the relationship between dysarthria level of speech and the neurological state of Parkinsonâ€™s patients. Biocybernetics and Biomedical Engineering, 2022, 42, 710-726.	5.9	7
319	Technology, Science and Culture: A Global Vision, Volume III. , 0, , .		0
320	Diagnostic classification of Parkinsonâ€™s disease based on non-motor manifestations and machine learning strategies. Neural Computing and Applications, 2023, 35, 5603-5617.	5.6	7

#	ARTICLE	IF	CITATIONS
321	Speech Analysis in Preclinical Identification of Alzheimer's Disease. Lecture Notes in Computer Science, 2022, , 363-368.	1.3	1
323	Comparative Study of Wearable Sensors, Video, and Handwriting to Detect Parkinson's Disease. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10.	4.7	21
324	Prediction of Parkinson's disease using machine learning classification from voice analysis. International Journal of Health Sciences, 0, , .	0.1	0
325	Parkinson's Disease Prediction Using Graphic User Interface-Machine Learning Algorithm. , 2022, , .		0
326	An Information Entropy Embedding Feature Selection Based on Genetic Algorithm. Security and Communication Networks, 2022, 2022, 1-10.	1.5	2
327	Layer recurrent neural network-based diagnosis of Parkinson's disease using voice features. Biomedizinische Technik, 2022, 67, 249-266.	0.8	4
328	Trade Between Population Size and Mutation Rate for GAAM (Genetic Algorithm with Aggressive) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 432-444.	0.7	1
329	A Machine Learning approach for Early Detection of Parkinson's Disease Using acoustic traces. , 2022, , .		8
330	FT4cip: A new functional tree for classification in class imbalance problems. Knowledge-Based Systems, 2022, , 109294.	7.1	0
331	Phonemes based detection of parkinson's disease for telehealth applications. Scientific Reports, 2022, 12, .	3.3	16
332	Voice Analysis for Neurological Disorder Recognition "A Systematic Review and Perspective on Emerging Trends. Frontiers in Digital Health, 0, 4, .	2.8	13
333	Automatic Parkinson's disease detection based on the combination of long-term acoustic features and Mel frequency cepstral coefficients (MFCC). Biomedical Signal Processing and Control, 2022, 78, 104013.	5.7	11
334	Machine Learning Techniques for Voice-based Early Detection of Parkinson's Disease. , 2022, , .		1
335	Analysis of EEG for Parkinson's Disease Detection. , 2022, , .		2
336	Imperative Role of Machine Learning Algorithm for Detection of Parkinson's Disease: Review, Challenges and Recommendations. Diagnostics, 2022, 12, 2003.	2.6	31
337	Automated restricted Boltzmann machine classifier for early diagnosis of Parkinson's disease using digitized spiral drawings. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 175-189.	4.9	17
338	Automated gender Parkinson's disease detection at the same time via a hybrid deep model using human voice. Concurrency Computation Practice and Experience, 0, , .	2.2	4
339	A generic optimization and learning framework for Parkinson disease via speech and handwritten records. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 10673-10693.	4.9	11

#	ARTICLE	IF	CITATIONS
340	Sensor technology with gait as a diagnostic tool for assessment of Parkinson's disease: a survey. Multimedia Tools and Applications, 2023, 82, 10211-10247.	3.9	1
341	Parkinson's disease effective biomarkers based on Hjorth features improved by machine learning. Expert Systems With Applications, 2023, 212, 118772.	7.6	13
342	Parkinson's Disease Detection Using Smartphone Recorded Phonemes in Real World Conditions. IEEE Access, 2022, 10, 97600-97609.	4.2	5
343	Stochastic Embedding of Empirical Mode Decomposition with Application in Parkinson's Disease Speech Diagnostics. SSRN Electronic Journal, 0, , .	0.4	0
344	Parkinson's Disease Detection Using Machine Learning. Lecture Notes in Networks and Systems, 2022, , 43-58.	0.7	0
345	Deep Learning-based model for the detection of Parkinson's disease using voice data. , 2022, , .		3
346	A systematic review of adaptive machine learning techniques for early detection of Parkinson's disease. , 2023, , 361-385.		3
347	A Novel Method Based on Nonlinear Binary Grasshopper Whale Optimization Algorithm for Feature Selection. Journal of Bionic Engineering, 2023, 20, 237-252.	5.0	11
348	Automatic Assessment of Aphasic Speech Sensed by Audio Sensors for Classification into Aphasia Severity Levels to Recommend Speech Therapies. Sensors, 2022, 22, 6966.	3.8	8
349	Attribute Reduction Based on Lift and Random Sampling. Symmetry, 2022, 14, 1828.	2.2	6
350	Mixed kernel SVR addressing Parkinson's progression from voice features. PLoS ONE, 2022, 17, e0275721.	2.5	3
351	Feature selection using Decomposed Mutual Information Maximization. Neurocomputing, 2022, 513, 215-232.	5.9	9
352	Computerized analysis of speech and voice for Parkinson's disease: A systematic review. Computer Methods and Programs in Biomedicine, 2022, 226, 107133.	4.7	14
353	Diagnosing Parkinson's disease using features of hand-drawn spirals. Procedia Computer Science, 2022, 207, 3413-3420.	2.0	1
354	Data Representativeness in Accessibility Datasets: A Meta-Analysis. , 2022, , .		4
355	Exploring robust computer-aided diagnosis of Parkinson's disease based on various voice signals. Frontiers in Physics, 0, 10, .	2.1	3
356	Multimodal Detection and Analysis of Parkinson's Disease. Lecture Notes in Networks and Systems, 2023, , 667-691.	0.7	0
357	A Hybrid U-Net Deep Learning Network for Screening and Evaluating Parkinson's Disease. Applied Sciences (Switzerland), 2022, 12, 11601.	2.5	12

#	ARTICLE	IF	CITATIONS
358	A Computerized Analysis with Machine Learning Techniques for the Diagnosis of Parkinsonâ€™s Disease: Past Studies and Future Perspectives. Diagnostics, 2022, 12, 2708.	2.6	6
359	An Efficient Machine Learning Approach for Diagnosing Parkinsonâ€™s Disease by Utilizing Voice Features. Electronics (Switzerland), 2022, 11, 3782.	3.1	8
360	A Novel Approach to Parkinson's Disease Progression Evaluation Using Convolutional Neural Networks. International Journal of Software Innovation, 2022, 11, 1-26.	0.4	0
361	Features of Hand-Drawn Spirals for Recognition of Parkinsonâ€™s Disease. Lecture Notes in Computer Science, 2022, , 458-469.	1.3	1
362	Envelope multi-type transformation ensemble algorithm of Parkinson speech samples. Applied Intelligence, 2023, 53, 15957-15978.	5.3	3
363	Analysis of Parkinsonâ€™s Disease Using an Imbalanced-Speech Dataset by Employing Decision Tree Ensemble Methods. Diagnostics, 2022, 12, 3000.	2.6	5
364	ParkinSense: A Novel Approach to Remote Idiopathic Parkinsonâ€™s Disease Diagnosis, Severity Profiling, and Telemonitoring via Ensemble Learning and Multimodal Data Fusion on Webcam-Derived Digital Biomarkers. , 2022, , .		0
365	Parkinsonâ€™s Disease Classification Using Random Forest Kerb Feature Selection. Intelligent Automation and Soft Computing, 2023, 36, 1417-1433.	2.1	0
366	Speech-Based Parkinsonâ€™s Disease Prediction Using XGBoost-Based Features Selection and the Stacked Ensemble of Classifiers. Journal of the Institution of Engineers (India): Series B, 2023, 104, 475-483.	1.9	1
367	Intelligent speech technologies for transcription, disease diagnosis, and medical equipment interactive control in smart hospitals: A review. Computers in Biology and Medicine, 2023, 153, 106517.	7.0	14
368	Predicting Parkinson's Disease Using Different Features Based on Xgboost of Voice Data. , 2022, , .		1
369	Parkinson HastalÄ±nÄ±n Ses Sinyalleri Ä°zerinden Makine Ä°renmesi AlgoritmalarÄ±nÄ±n KarÄ±laÅtÄ±rÄ±lmasÄ±, Harran Ä°niversitesi MÄ°hendislik Dergisi, 0, , .	0.4	0
371	Diagnosing Parkinsonâ€™s Disease Based on Voice Recordings: Comparative Study Using Machine Learning Techniques. Smart Innovation, Systems and Technologies, 2023, , 49-60.	0.6	0
372	A voice feature extraction method based on fractional attribute topology for Parkinsonâ€™s disease detection. Expert Systems With Applications, 2023, 219, 119650.	7.6	10
373	Diagnosis of Parkinsonâ€™s Disease Using Machine Learning Algorithms. Lecture Notes in Networks and Systems, 2023, , 205-217.	0.7	1
374	Has machine learning over-promised in healthcare?. Artificial Intelligence in Medicine, 2023, 139, 102524.	6.5	5
375	Machine learning- and statistical-based voice analysis of Parkinsonâ€™s disease patients: A survey. Expert Systems With Applications, 2023, 219, 119651.	7.6	10
376	Voice feature description of Parkinsonâ€™s disease based on co-occurrence direction attribute topology. Engineering Applications of Artificial Intelligence, 2023, 122, 106097.	8.1	6

#	ARTICLE	IF	CITATIONS
377	Signal and Visual Approaches for Parkinson's Disease Detection from Spiral Drawings. Proceedings of the Northern Lights Deep Learning Workshop, 0, 4, .	0.0	3
378	LSTM Neural Network for Parkinsonâ€™s Disease Analysis. , 2022, , .		0
379	A Comprehensive Review on AI-Enabled Models for Parkinsonâ€™s Disease Diagnosis. Electronics (Switzerland), 2023, 12, 783.	3.1	13
380	Improving Parkinsonâ€™s disease recognition through voice analysis using deep learning. Pattern Recognition Letters, 2023, 168, 64-70.	4.2	3
381	Predicting Parkinson's disease based on transformed speech signal by DWT with two methods for features selection: GA-AdaBoost and BPSO. , 2022, , .		0
382	Exemplar-Based Sparse Representations for Detection of Parkinson's Disease From Speech. IEEE/ACM Transactions on Audio Speech and Language Processing, 2023, 31, 1386-1396.	5.8	4
383	A Spatio-Temporal Siamese Neural Network for Multimodal Handwriting Abnormality Screening of Parkinsonâ€™s Disease. International Journal of Intelligent Systems, 2023, 2023, 1-18.	5.7	2
384	An overlapping oriented imbalanced ensemble learning algorithm with weighted projection clustering grouping and consistent fuzzy sample transformation. Information Sciences, 2023, 637, 118955.	6.9	3
385	Autonomous AI-based System for Parkinson's Disease Diagnostic. , 2022, , .		0
386	Ataxic speech disorders and Parkinsonâ€™s disease diagnostics via stochastic embedding of empirical mode decomposition. PLoS ONE, 2023, 18, e0284667.	2.5	1
387	Bio-inspired voting ensemble weighted extreme learning machine classifier for the detection of Parkinsonâ€™s disease. Research on Biomedical Engineering, 0, , .	2.2	1
388	Time-frequency analysis of speech signal using Chirplet transform for automatic diagnosis of Parkinsonâ€™s disease. Biomedical Engineering Letters, 2023, 13, 613-623.	4.1	8
389	Improved spectral clustering using three-way decisions. Information Sciences, 2023, 641, 119113.	6.9	4
390	A modified kNN algorithm to detect Parkinsonâ€™s disease. Network Modeling Analysis in Health Informatics and Bioinformatics, 2023, 12, .	2.1	1
391	Deep learning and wearable sensors for the diagnosis and monitoring of Parkinsonâ€™s disease: A systematic review. Expert Systems With Applications, 2023, 229, 120541.	7.6	9
392	Automatic and Early Detection of Parkinsonâ€™s Disease by Analyzing Acoustic Signals Using Classification Algorithms Based on Recursive Feature Elimination Method. Diagnostics, 2023, 13, 1924.	2.6	7
393	Early and High-Accuracy Diagnosis of Parkinsonâ€™s Disease: Outcomes of a New Model. Computational and Mathematical Methods in Medicine, 2023, 2023, 1-15.	1.3	6
394	Parkinsonâ€™s Disease Recognition from Speech Signal Using Discrete Wavelet Transform, Delta, Delta-Delta, and K-Nearest Neighbor. Lecture Notes in Networks and Systems, 2023, , 426-439.	0.7	0

#	ARTICLE	IF	CITATIONS
395	A novel feature extraction method based on TQWT and instantaneous energy variation for Parkinson's disease detection. Biomedical Signal Processing and Control, 2023, 85, 105087.	5.7	0
397	Proposing a new approach based on convolutional neural networks and random forest for the diagnosis of Parkinson's disease from speech signals. Applied Acoustics, 2023, 211, 109476.	3.3	3
398	Sample-Pair Envelope Diamond Autoencoder Ensemble Algorithm for Chronic Disease Recognition. Applied Sciences (Switzerland), 2023, 13, 7322.	2.5	0
399	Parkinson's disease diagnosis using recurrent neural network based deep learning model by analyzing online handwriting. Multimedia Tools and Applications, 2024, 83, 11687-11715.	3.9	3
400	An ensemble nearest neighbor boosting technique for prediction of Parkinson's disease. Healthcare Analytics, 2023, 3, 100181.	4.3	2
401	Wearable sensors and features for diagnosis of neurodegenerative diseases: A systematic review. Digital Health, 2023, 9, 205520762311735.	1.8	1
402	A Review on Early Diagnosis of Parkinson's Disease Using Speech Signal Parameters Based on Machine Learning Technique. Lecture Notes in Electrical Engineering, 2023, , 217-233.	0.4	0
403	Parkinson's Disease Detection Using Machine Learning. , 2022, , .		1
404	Applied Machine Learning Techniques to Diagnose Voice-Affecting Conditions and Disorders: Systematic Literature Review. Journal of Medical Internet Research, 0, 25, e46105.	4.3	6
405	Augmented Datasheets for Speech Datasets and Ethical Decision-Making. , 2023, , .		2
406	Deep convolution neural network based Parkinson's disease detection using line spectral frequency spectrum of running speech. Journal of Intelligent and Fuzzy Systems, 2023, , 1-17.	1.4	0
407	An insight on recent advancements and future perspectives in detection techniques of Parkinson's disease. Evolutionary Intelligence, 0, , .	3.6	0
408	The advantages of artificial intelligence-based gait assessment in detecting, predicting, and managing Parkinson's disease. Frontiers in Aging Neuroscience, 0, 15, .	3.4	1
409	CNN AND LSTM FOR THE CLASSIFICATION OF PARKINSON'S DISEASE BASED ON THE GTCC AND MFCC. , 2023, 19, 1-24.		2
410	Patient Questionnaires Based Parkinson's Disease Classification Using Artificial Neural Network. Annals of Data Science, 0, , .	3.2	2
411	A Survey on Public Data Sets Related to Chronic Diseases. , 2023, , .		0
412	Speech-based Detection Machine Learning Methods on Parkinson Data Set. , 2023, , .		1
413	A Novel Artificial-Intelligence-Based Approach for Classification of Parkinson's Disease Using Complex and Large Vocal Features. Biomimetics, 2023, 8, 351.	3.3	1

#	ARTICLE	IF	CITATIONS
414	Review of Metaheuristic Algorithms in Feature Selection based on Parkinson Disease. , 2023, , .		1
415	A review of emergent intelligent systems for the detection of Parkinsonâ€™s disease. Biomedical Engineering Letters, 2023, 13, 591-612.	4.1	0
416	Dimensionality reduction approach based on modified hunger games search: case study on Parkinsonâ€™s disease phonation. Neural Computing and Applications, 2023, 35, 21979-22005.	5.6	5
417	Language Generalization Using Active Learning in the Context of Parkinsonâ€™s Disease Classification. Lecture Notes in Computer Science, 2023, , 349-359.	1.3	0
418	A novel hybrid method for feature selection based on gender analysis for early Parkinson's disease diagnosis using speech analysis. Applied Acoustics, 2023, 211, 109561.	3.3	0
419	Ensemble Technique based Parkinsonâ€™s Disease Detection from FOG and EEG Signals. , 2023, , .		0
420	Digital Twin-Based Healthcare System (DTHS) for Earlier Parkinson Disease Identification and Diagnosis Using Optimized Fuzzy Based k-Nearest Neighbor Classifier Model. IEEE Access, 2023, 11, 96661-96672.	4.2	3
421	Recognition of signs of Parkinson's disease based on the analysis of voice markers and motor activity. Informatika, 2023, 20, 106-114.	0.3	0
422	Enhancing Parkinson's disease severity assessment through voice-based wavelet scattering, optimized model selection, and weighted majority voting. Medicine in Novel Technology and Devices, 2023, 20, 100266.	1.6	0
423	Deep Fuzzy Envelope Sample Generation Mechanism for Imbalanced Ensemble Classification. IEEE Transactions on Fuzzy Systems, 2024, 32, 1248-1262.	9.8	0
424	A Robust Approach for Parkinson Disease Detection from Voice Signal. Lecture Notes in Computer Science, 2023, , 127-134.	1.3	0
425	Robust Neurodegenerative Disease Detection Using Machine Learning Algorithms. Communications in Computer and Information Science, 2023, , 39-48.	0.5	0
426	Interpretable speech features vs. DNN embeddings: What to use in the automatic assessment of Parkinsonâ€™s disease in multi-lingual scenarios. Computers in Biology and Medicine, 2023, 166, 107559.	7.0	0
427	The Combination of a Graph Neural Network Technique and Brain Imaging to Diagnose Neurological Disorders: A Review and Outlook. Brain Sciences, 2023, 13, 1462.	2.3	1
428	Intra-subject enveloped multilayer fuzzy sample compression for speech diagnosis of Parkinson's disease. Medical and Biological Engineering and Computing, 0, , .	2.8	0
429	A new hybrid approach based on AOA, CNN and feature fusion that can automatically diagnose Parkinson's disease from sound signals: PDD-AOA-CNN. Signal, Image and Video Processing, 0, , .	2.7	1
430	Towards a Corpus (and Language)-Independent Screening of Parkinsonâ€™s Disease from Voice and Speech through Domain Adaptation. Bioengineering, 2023, 10, 1316.	3.5	1
431	Congruity feature extraction across Parkinsonâ€™s voice disorder datasets based on formal concept analysis. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
433	Harnessing Voice Analysis and Machine Learning for Early Diagnosis of Parkinson's Disease: A Comprehensive Study Across Diverse Datasets. SSRN Electronic Journal, 0, , .	0.4	0
434	Detecting Wilson's disease from unstructured connected speech: An embedding-based approach augmented by attention and bi-directional dependency. Speech Communication, 2024, 156, 103011.	2.8	0
435	Vocal Feature Extraction Based Hybrid ML Prototype for Parkinson's Disease Prediction. , 2023, , .		0
436	An Approach Using in Communication Network Apply in Healthcare System Based on the Deep Learning Autoencoder Classification Optimization Metaheuristic Method. Wireless Personal Communications, 0, , .	2.7	0
437	Comparison of Feature Extraction Methods Between MFCC, BFCC, and GFCC with SVM Classifier for Parkinsonâ€™s Disease Diagnosis. Lecture Notes in Networks and Systems, 2024, , 231-247.	0.7	0
438	Parkinsonâ€™s disease detection using handwritten drawings and comparing it with voice dataset. AIP Conference Proceedings, 2023, , .	0.4	0
439	DETECTING PARKINSON'S DISEASE USING A STACKED LONG SHORT-TERM MEMORY DEEP NEURAL NETWORK WITH FEATURE FUSION. , 2023, 16, 46-68.		0
440	Monitoring the Effect of Levodopa Using Sustained Phonemes in Parkinsonâ€™s Disease Patients. , 2023, , .		0
441	The Change of Vocal Tract Length in People with Parkinsonâ€™s Disease. , 2023, , .		0
442	An artificial intelligence-based decision support system for early and accurate diagnosis of Parkinsonâ€™s Disease. Decision Analytics Journal, 2024, 10, 100381.	4.8	0
443	Voice-based SVM Model Reliability for Identifying Parkinsonâ€™s Disease. IEEE Access, 2023, , 1-1.	4.2	0
444	An Artificial Intelligence Integrated Technique for Screening Neurological Diseases with Sound as a Biomarker. Lecture Notes in Networks and Systems, 2023, , 563-575.	0.7	0
445	Improved Classification with Simultaneous Feature Selection of Speech Signals for Parkinson's Patients. VFAST Transactions on Software Engineering, 2021, 9, 22-32.	0.0	0
446	Speech features-based Parkinsonâ€™s disease classification using combined SMOTE-ENN and binary machine learning. Health and Technology, 2024, 14, 393-406.	3.6	0
447	Parkinsonâ€™s disease detection based on features refinement through L1 regularized SVM and deep neural network. Scientific Reports, 2024, 14, .	3.3	0
448	Voice-Based Detection of Parkinsonâ€™s Disease Using Empirical Mode Decomposition, IMFCC, MFCC, and Deep Learning. Lecture Notes in Networks and Systems, 2024, , 144-150.	0.7	0
449	Investigation of Scalograms with a Deep Feature Fusion Approach for Detection of Parkinsonâ€™s Disease. Cognitive Computation, 0, , .	5.2	0
450	Fractal dimensions and machine learning for detection of Parkinsonâ€™s disease in resting-state electroencephalography. Neural Computing and Applications, 2024, 36, 8257-8280.	5.6	0

#	ARTICLE	IF	CITATIONS
451	IT diagnostics of Parkinson's disease based on voice markers and decreased motor activity. Sistemnyj Analiz I PrikladnaË Informatika, 2024, , 51-57.	0.2	0
452	Analysis of Motor Skills for Parkinsonâ€™s Disease Diagnosis. , 2023, , .		0
453	Parkinson's Disease Classification from /a/ Vowel : A Two Databases Comparison Study. , 2023, , .		0
454	Parkinson Disease Screening Using UNET Neural Network and BWO Based on Hand Drawn Pattern. Lecture Notes in Electrical Engineering, 2024, , 477-491.	0.4	0
455	Predictive Modelling for Parkinson's Disease Diagnosis using Biomedical Voice Measurements. EAI Endorsed Transactions on Pervasive Health and Technology, 0, 10, .	0.9	0
456	Z-number based neural network structured inference system. Information Sciences, 2024, 671, 120341.	6.9	0
457	An LSTM based DNN Model for Neurological Disease Prediction Using Voice Characteristics. EAI Endorsed Transactions on Pervasive Health and Technology, 0, 10, .	0.9	0
458	Leveraging Deep Learning for Fine-Grained Categorization of Parkinsonâ€™s Disease Progression Levels through Analysis of Vocal Acoustic Patterns. Bioengineering, 2024, 11, 295.	3.5	0
459	Automated Parkinson's Disease Detection: A Review of Techniques, Datasets, Modalities, and Open Challenges. International Journal on Smart Sensing and Intelligent Systems, 2024, 17, .	0.7	0