

Juan M Gorriz

List of Publications by Year in descending order

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Version: 2024-02-01

299
papers

6,982
citations

53660

45
h-index

85405

71
g-index

326
all docs

326
docs citations

326
times ranked

5172
citing authors

#	ARTICLE	IF	CITATIONS
1	Ensembles of Deep Learning Architectures for the Early Diagnosis of the Alzheimer's Disease. International Journal of Neural Systems, 2016, 26, 1650025.	3.2	289
2	Covid-19 classification by FGCNet with deep feature fusion from graph convolutional network and convolutional neural network. Information Fusion, 2021, 67, 208-229.	11.7	245
3	Advances in multimodal data fusion in neuroimaging: Overview, challenges, and novel orientation. Information Fusion, 2020, 64, 149-187.	11.7	235
4	Early diagnosis of Alzheimer's disease based on partial least squares, principal component analysis and support vector machine using segmented MRI images. Neurocomputing, 2015, 151, 139-150.	3.5	214
5	Principal component analysis-based techniques and supervised classification schemes for the early detection of Alzheimer's disease. Neurocomputing, 2011, 74, 1260-1271.	3.5	141
6	NMF-SVM Based CAD Tool Applied to Functional Brain Images for the Diagnosis of Alzheimer's Disease. IEEE Transactions on Medical Imaging, 2012, 31, 207-216.	5.4	132
7	Studying the Manifold Structure of Alzheimer's Disease: A Deep Learning Approach Using Convolutional Autoencoders. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 17-26.	3.9	127
8	SVM-based computer-aided diagnosis of the Alzheimer's disease using t-test NMSE feature selection with feature correlation weighting. Neuroscience Letters, 2009, 461, 293-297.	1.0	123
9	Artificial intelligence within the interplay between natural and artificial computation: Advances in data science, trends and applications. Neurocomputing, 2020, 410, 237-270.	3.5	121
10	Computer-aided diagnosis of Alzheimer's type dementia combining support vector machines and discriminant set of features. Information Sciences, 2013, 237, 59-72.	4.0	111
11	Computer aided diagnosis system for the Alzheimer's disease based on partial least squares and random forest SPECT image classification. Neuroscience Letters, 2010, 472, 99-103.	1.0	110
12	Brain Connectivity Analysis: A Short Survey. Computational Intelligence and Neuroscience, 2012, 2012, 1-21.	1.1	109
13	SVM-based CAD system for early detection of the Alzheimer's disease using kernel PCA and LDA. Neuroscience Letters, 2009, 464, 233-238.	1.0	107
14	NAGNN: Classification of COVID-19 based on neighboring aware representation from deep graph neural network. International Journal of Intelligent Systems, 2022, 37, 1572-1598.	3.3	107
15	Advances in Data Preprocessing for Biomedical Data Fusion: An Overview of the Methods, Challenges, and Prospects. Information Fusion, 2021, 76, 376-421.	11.7	106
16	18F-FDG PET imaging analysis for computer aided Alzheimer's diagnosis. Information Sciences, 2011, 181, 903-916.	4.0	101
17	Applications of deep learning techniques for automated multiple sclerosis detection using magnetic resonance imaging: A review. Computers in Biology and Medicine, 2021, 136, 104697.	3.9	97
18	Automatic assistance to Parkinson's disease diagnosis in DaTSCAN SPECT imaging. Medical Physics, 2012, 39, 5971-5980.	1.6	92

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19	A Novel LMS Algorithm Applied to Adaptive Noise Cancellation. IEEE Signal Processing Letters, 2009, 16, 34-37.	2.1	89
20	Computer Aided Diagnosis tool for Alzheimer's Disease based on Mann-Whitney-Wilcoxon U-Test. Expert Systems With Applications, 2012, 39, 9676-9685.	4.4	86
21	Automatic tool for Alzheimer's disease diagnosis using PCA and Bayesian classification rules. Electronics Letters, 2009, 45, 389.	0.5	82
22	Automatic Diagnosis of Schizophrenia in EEG Signals Using CNN-LSTM Models. Frontiers in Neuroinformatics, 2021, 15, 777977.	1.3	82
23	GMM based SPECT image classification for the diagnosis of Alzheimer's disease. Applied Soft Computing Journal, 2011, 11, 2313-2325.	4.1	80
24	Two fully-unsupervised methods for MR brain image segmentation using SOM-based strategies. Applied Soft Computing Journal, 2013, 13, 2668-2682.	4.1	79
25	LVQ-SVM based CAD tool applied to structural MRI for the diagnosis of the Alzheimer's disease. Pattern Recognition Letters, 2013, 34, 1725-1733.	2.6	75
26	Independent Component Analysis-Support Vector Machine-Based Computer-Aided Diagnosis System for Alzheimer's with Visual Support. International Journal of Neural Systems, 2017, 27, 1650050.	3.2	74
27	Convolutional Neural Networks for Neuroimaging in Parkinson's Disease: Is Preprocessing Needed?. International Journal of Neural Systems, 2018, 28, 1850035.	3.2	73
28	Ensemble of random forests One vs. Rest classifiers for MCI and AD prediction using ANOVA cortical and subcortical feature selection and partial least squares. Journal of Neuroscience Methods, 2018, 302, 47-57.	1.3	69
29	Digital image analysis for automatic enumeration of malaria parasites using morphological operations. Expert Systems With Applications, 2015, 42, 3041-3047.	4.4	65
30	An overview of artificial intelligence techniques for diagnosis of Schizophrenia based on magnetic resonance imaging modalities: Methods, challenges, and future works. Computers in Biology and Medicine, 2022, 146, 105554.	3.9	64
31	Feature selection using factor analysis for Alzheimer's diagnosis using PET images. Medical Physics, 2010, 37, 6084-6095.	1.6	63
32	Application of Empirical Mode Decomposition (EMD) on DaTSCAN SPECT images to explore Parkinson Disease. Expert Systems With Applications, 2013, 40, 2756-2766.	4.4	63
33	Parkinson's Disease Detection Using Isosurfaces-Based Features and Convolutional Neural Networks. Frontiers in Neuroinformatics, 2019, 13, 48.	1.3	61
34	Improving MR brain image segmentation using self-organising maps and entropy-gradient clustering. Information Sciences, 2014, 262, 117-136.	4.0	60
35	Computer aided diagnosis of Alzheimer's disease using component based SVM. Applied Soft Computing Journal, 2011, 11, 2376-2382.	4.1	59
36	Improved Gauss-Newton optimisation methods in affine registration of SPECT brain images. Electronics Letters, 2008, 44, 1291.	0.5	58

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37	SVM-based speech endpoint detection using contextual speech features. Electronics Letters, 2006, 42, 426.	0.5	57
38	Association rule-based feature selection method for Alzheimer's disease diagnosis. Expert Systems With Applications, 2012, 39, 11766-11774.	4.4	57
39	Alzheimer's diagnosis using eigenbrains and support vector machines. Electronics Letters, 2009, 45, 342.	0.5	56
40	Improved Parkinsonism diagnosis using a partial least squares based approach. Medical Physics, 2012, 39, 4395-4403.	1.6	55
41	A comparative study of feature extraction methods for the diagnosis of Alzheimer's disease using the ADNI database. Neurocomputing, 2012, 75, 64-71.	3.5	55
42	Exploratory graphical models of functional and structural connectivity patterns for Alzheimer's Disease diagnosis. Frontiers in Computational Neuroscience, 2015, 9, 132.	1.2	51
43	Computer-aided diagnosis of Alzheimer's disease using support vector machines and classification trees. Physics in Medicine and Biology, 2010, 55, 2807-2817.	1.6	50
44	Automatic detection of Parkinsonism using significance measures and component analysis in DaTSCAN imaging. Neurocomputing, 2014, 126, 58-70.	3.5	49
45	Segmentation of Brain MRI Using SOM-FCM-Based Method and 3D Statistical Descriptors. Computational and Mathematical Methods in Medicine, 2013, 2013, 1-12.	0.7	48
46	Robust Ensemble Classification Methodology for I123-Ioflupane SPECT Images and Multiple Heterogeneous Biomarkers in the Diagnosis of Parkinson's Disease. Frontiers in Neuroinformatics, 2018, 12, 53.	1.3	47
47	Detection of (In)activity Periods in Human Body Motion Using Inertial Sensors: A Comparative Study. Sensors, 2012, 12, 5791-5814.	2.1	45
48	Linear intensity normalization of FP-CIT SPECT brain images using the $\hat{\mu}$ -stable distribution. NeuroImage, 2013, 65, 449-455.	2.1	45
49	Deep residual transfer learning for automatic diagnosis and grading of diabetic retinopathy. Neurocomputing, 2021, 452, 424-434.	3.5	44
50	Parametrization of textural patterns in I231-ioflupane imaging for the automatic detection of Parkinsonism. Medical Physics, 2013, 41, 012502.	1.6	43
51	Improved Voice Activity Detection Using Contextual Multiple Hypothesis Testing for Robust Speech Recognition. IEEE Transactions on Audio Speech and Language Processing, 2007, 15, 2177-2189.	3.8	40
52	Classification of functional brain images using a GMM-based multi-variate approach. Neuroscience Letters, 2010, 474, 58-62.	1.0	40
53	Automatic selection of ROIs in functional imaging using Gaussian mixture models. Neuroscience Letters, 2009, 460, 108-111.	1.0	39
54	Early diagnosis of Alzheimer's disease based on Partial Least Squares and Support Vector Machine. Expert Systems With Applications, 2013, 40, 677-683.	4.4	39

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55	Integrating discretization and association rule-based classification for Alzheimer's disease diagnosis. Expert Systems With Applications, 2013, 40, 1571-1578.	4.4	39
56	Projecting independent components of SPECT images for computer aided diagnosis of Alzheimer's disease. Pattern Recognition Letters, 2010, 31, 1342-1347.	2.6	38
57	Wagyromag: Wireless sensor network for monitoring and processing human body movement in healthcare applications. Journal of Systems Architecture, 2011, 57, 905-915.	2.5	38
58	Hard C-means clustering for voice activity detection. Speech Communication, 2006, 48, 1638-1649.	1.6	37
59	Improving MRI segmentation with probabilistic GHSOM and multiobjective optimization. Neurocomputing, 2013, 114, 118-131.	3.5	37
60	Analysis of SPECT brain images for the diagnosis of Alzheimer's disease using moments and support vector machines. Neuroscience Letters, 2009, 461, 60-64.	1.0	35
61	SPECT image classification using random forests. Electronics Letters, 2009, 45, 604.	0.5	35
62	On the brain structure heterogeneity of autism: Parsing out acquisition site effects with significance-weighted principal component analysis. Human Brain Mapping, 2017, 38, 1208-1223.	1.9	35
63	Higher-order statistics to detect and characterise termite emissions. Electronics Letters, 2004, 40, 1316.	0.5	34
64	Denosing using local projective subspace methods. Neurocomputing, 2006, 69, 1485-1501.	3.5	34
65	Efficient mining of association rules for the early diagnosis of Alzheimer's disease. Physics in Medicine and Biology, 2011, 56, 6047-6063.	1.6	34
66	Automatic computer aided diagnosis tool using component-based SVM. , 2008, , .		32
67	Multivariate Analysis of 18F-DMFP PET Data to Assist the Diagnosis of Parkinsonism. Frontiers in Neuroinformatics, 2017, 11, 23.	1.3	32
68	Building a FP-CIT SPECT Brain Template Using a Posterization Approach. Neuroinformatics, 2015, 13, 391-402.	1.5	31
69	Case-Based Statistical Learning: A Non-Parametric Implementation With a Conditional-Error Rate SVM. IEEE Access, 2017, 5, 11468-11478.	2.6	31
70	A Machine Learning Approach to Reveal the NeuroPhenotypes of Autisms. International Journal of Neural Systems, 2019, 29, 1850058.	3.2	31
71	Combining PET Images and Neuropsychological Test Data for Automatic Diagnosis of Alzheimer's Disease. PLoS ONE, 2014, 9, e88687.	1.1	31
72	Regions of interest computed by SVM wrapped method for Alzheimer's disease examination from segmented MRI. Frontiers in Aging Neuroscience, 2014, 6, 20.	1.7	30

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73	Effective Emission Tomography Image Reconstruction Algorithms for SPECT Data. Lecture Notes in Computer Science, 2008, , 741-748.	1.0	30
74	Speech/non-speech discrimination based on contextual information integrated bispectrum LRT. IEEE Signal Processing Letters, 2006, 13, 497-500.	2.1	29
75	Automatic ROI Selection in Structural Brain MRI Using SOM 3D Projection. PLoS ONE, 2014, 9, e93851.	1.1	28
76	An effective cluster-based model for robust speech detection and speech recognition in noisy environments. Journal of the Acoustical Society of America, 2006, 120, 470-481.	0.5	27
77	Prediction of CO maximum ground level concentrations in the Bay of Algeciras, Spain using artificial neural networks. Chemosphere, 2008, 70, 1190-1195.	4.2	27
78	Identifying endophenotypes of autism: a multivariate approach. Frontiers in Computational Neuroscience, 2014, 8, 60.	1.2	27
79	P300 brainwave extraction from EEG signals: An unsupervised approach. Expert Systems With Applications, 2017, 74, 1-10.	4.4	27
80	Using deep neural networks along with dimensionality reduction techniques to assist the diagnosis of neurodegenerative disorders. Logic Journal of the IGPL, 2018, 26, 618-628.	1.3	27
81	Data fusion based on Searchlight analysis for the prediction of Alzheimer's disease. Expert Systems With Applications, 2021, 185, 115549.	4.4	27
82	High-efficiency low-cost accelerometer-aided gyroscope calibration. , 2009, , .		26
83	Automatic Determination of Validity of Input Data Used in Ellipsoid Fitting MARG Calibration Algorithms. Sensors, 2013, 13, 11797-11817.	2.1	25
84	A 3D Convolutional Neural Network Approach for the Diagnosis of Parkinson's Disease. Lecture Notes in Computer Science, 2017, , 324-333.	1.0	25
85	A Spherical Brain Mapping of MR Images for the Detection of Alzheimer's Disease. Current Alzheimer Research, 2016, 13, 575-588.	0.7	25
86	A Structural Parametrization of the Brain Using Hidden Markov Models-Based Paths in Alzheimer's Disease. International Journal of Neural Systems, 2016, 26, 1650024.	3.2	24
87	Assisted Diagnosis of Parkinsonism Based on the Striatal Morphology. International Journal of Neural Systems, 2019, 29, 1950011.	3.2	24
88	Morphological Characterization of Functional Brain Imaging by Isosurface Analysis in Parkinson's Disease. International Journal of Neural Systems, 2020, 30, 2050044.	3.2	24
89	MR brain image segmentation by growing hierarchical SOM and probability clustering. Electronics Letters, 2011, 47, 585.	0.5	23
90	Distinguishing Parkinson's disease from atypical parkinsonian syndromes using PET data and a computer system based on support vector machines and Bayesian networks. Frontiers in Computational Neuroscience, 2015, 9, 137.	1.2	23

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91	Artificial intelligence in radiology: relevance of collaborative work between radiologists and engineers for building a multidisciplinary team. <i>Clinical Radiology</i> , 2021, 76, 317-324.	0.5	23
92	A new model for time-series forecasting using radial basis functions and exogenous data. <i>Neural Computing and Applications</i> , 2004, 13, 101-111.	3.2	21
93	Improved MO-LRT VAD based on bispectra Gaussian model. <i>Electronics Letters</i> , 2005, 41, 877.	0.5	21
94	On the computation of distribution-free performance bounds: Application to small sample sizes in neuroimaging. <i>Pattern Recognition</i> , 2019, 93, 1-13.	5.1	21
95	EEG Connectivity Analysis Using Denoising Autoencoders for the Detection of Dyslexia. <i>International Journal of Neural Systems</i> , 2020, 30, 2050037.	3.2	21
96	Wavelets and wavelet packets applied to detect and characterize transient alarm signals from termites. <i>Measurement: Journal of the International Measurement Confederation</i> , 2006, 39, 553-564.	2.5	20
97	Accurate human limb angle measurement: sensor fusion through Kalman, least mean squares and recursive least-squares adaptive filtering. <i>Measurement Science and Technology</i> , 2011, 22, 025801.	1.4	20
98	Unsupervised Neural Techniques Applied to MR Brain Image Segmentation. <i>Advances in Artificial Neural Systems</i> , 2012, 2012, 1-7.	1.0	20
99	Functional activity maps based on significance measures and Independent Component Analysis. <i>Computer Methods and Programs in Biomedicine</i> , 2013, 111, 255-268.	2.6	19
100	Optimized One vs One Approach in Multiclass Classification for Early Alzheimer's Disease and Mild Cognitive Impairment Diagnosis. <i>IEEE Access</i> , 2020, 8, 96981-96993.	2.6	19
101	Jointly Gaussian PDF-Based Likelihood Ratio Test for Voice Activity Detection. <i>IEEE Transactions on Audio Speech and Language Processing</i> , 2008, 16, 1565-1578.	3.8	18
102	Analysis of SPECT brain images for the diagnosis of Alzheimer's disease based on NMF for feature extraction. <i>Neuroscience Letters</i> , 2010, 479, 192-196.	1.0	18
103	Functional brain image classification using association rules defined over discriminant regions. <i>Pattern Recognition Letters</i> , 2012, 33, 1666-1672.	2.6	18
104	On the empirical mode decomposition applied to the analysis of brain SPECT images. <i>Expert Systems With Applications</i> , 2012, 39, 13451-13461.	4.4	17
105	Alzheimer's Disease Computer-Aided Diagnosis: Histogram-Based Analysis of Regional MRI Volumes for Feature Selection and Classification. <i>Journal of Alzheimer's Disease</i> , 2018, 65, 819-842.	1.2	17
106	Autosomal dominantly inherited alzheimer disease: Analysis of genetic subgroups by machine learning. <i>Information Fusion</i> , 2020, 58, 153-167.	11.7	17
107	Comparison between Different Intensity Normalization Methods in 123I-Ioflupane Imaging for the Automatic Detection of Parkinsonism. <i>PLoS ONE</i> , 2015, 10, e0130274.	1.1	17
108	Parameterization of the distribution of white and grey matter in MRI using the -stable distribution. <i>Computers in Biology and Medicine</i> , 2013, 43, 559-567.	3.9	16

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109	Discriminative Sparse Features for Alzheimer's Disease Diagnosis Using Multimodal Image Data. <i>Current Alzheimer Research</i> , 2017, 15, 67-79.	0.7	16
110	Improved likelihood ratio test based voice activity detector applied to speech recognition. <i>Speech Communication</i> , 2010, 52, 664-677.	1.6	15
111	Using frequency analysis to improve the precision of human body posture algorithms based on Kalman filters. <i>Computers in Biology and Medicine</i> , 2016, 72, 229-238.	3.9	15
112	Functional Brain Imaging Synthesis Based on Image Decomposition and Kernel Modeling: Application to Neurodegenerative Diseases. <i>Frontiers in Neuroinformatics</i> , 2017, 11, 65.	1.3	15
113	Generalized LRT-Based Voice Activity Detector. <i>IEEE Signal Processing Letters</i> , 2006, 13, 636-639.	2.1	14
114	Hybridizing sparse component analysis with genetic algorithms for microarray analysis. <i>Neurocomputing</i> , 2008, 71, 2356-2376.	3.5	14
115	Spatial component analysis of MRI data for Alzheimer's disease diagnosis: a Bayesian network approach. <i>Frontiers in Computational Neuroscience</i> , 2014, 8, 156.	1.2	14
116	Intensity normalization of DaTSCAN SPECT imaging using a model-based clustering approach. <i>Applied Soft Computing Journal</i> , 2015, 37, 234-244.	4.1	14
117	A semi-supervised learning approach for model selection based on class-hypothesis testing. <i>Expert Systems With Applications</i> , 2017, 90, 40-49.	4.4	14
118	Automated Detection and Segmentation of Nonmass-Enhancing Breast Tumors with Dynamic Contrast-Enhanced Magnetic Resonance Imaging. <i>Contrast Media and Molecular Imaging</i> , 2018, 2018, 1-11.	0.4	14
119	Usefulness of Dual-Point Amyloid PET Scans in Appropriate Use Criteria: A Multicenter Study. <i>Journal of Alzheimer's Disease</i> , 2018, 65, 765-779.	1.2	14
120	Automated Diagnosis of Parkinsonian Syndromes by Deep Sparse Filtering-Based Features. <i>Smart Innovation, Systems and Technologies</i> , 2016, , 249-258.	0.5	14
121	Learning Longitudinal MRI Patterns by SICE and Deep Learning: Assessing the Alzheimer's Disease Progression. <i>Communications in Computer and Information Science</i> , 2017, , 413-424.	0.4	14
122	Computer aided diagnosis of the Alzheimer's disease combining SPECT-based feature selection and random forest classifiers. , 2009, , .		13
123	Alzheimer's disease detection in functional images using 2D Gabor wavelet analysis. <i>Electronics Letters</i> , 2010, 46, 556.	0.5	13
124	Intensity normalization in the analysis of functional DaTSCAN SPECT images: The $\hat{1}\pm$ -stable distribution-based normalization method vs other approaches. <i>Neurocomputing</i> , 2015, 150, 4-15.	3.5	13
125	Machine-learning neuroimaging challenge for automated diagnosis of mild cognitive impairment: Lessons learnt. <i>Journal of Neuroscience Methods</i> , 2018, 302, 10-13.	1.3	13
126	Preprocessing of 18F-DMFP-PET Data Based on Hidden Markov Random Fields and the Gaussian Distribution. <i>Frontiers in Aging Neuroscience</i> , 2017, 9, 326.	1.7	12

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127	Deep Convolutional Autoencoders vs PCA in a Highly-Unbalanced Parkinson's Disease Dataset: A DaTSCAN Study. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 47-56.	0.5	12
128	Empirical Functional PCA for 3D Image Feature Extraction Through Fractal Sampling. <i>International Journal of Neural Systems</i> , 2019, 29, 1850040.	3.2	12
129	Wavelets and Wavelet Packets Applied to Termite Detection. <i>Lecture Notes in Computer Science</i> , 2005, , 900-907.	1.0	12
130	Quantifying Differences Between Affine and Nonlinear Spatial Normalization of FP-CIT Spect Images. <i>International Journal of Neural Systems</i> , 2022, 32, 2250019.	3.2	12
131	Statistical voice activity detection based on integrated bispectrum likelihood ratio tests for robust speech recognition. <i>Journal of the Acoustical Society of America</i> , 2007, 121, 2946-2958.	0.5	11
132	Speech enhancement in discontinuous transmission systems using the constrained-stability least-mean-squares algorithm. <i>Journal of the Acoustical Society of America</i> , 2008, 124, 3669-3683.	0.5	11
133	Alzheimer's Diagnosis Using Eigenbrains and Support Vector Machines. <i>Lecture Notes in Computer Science</i> , 2009, , 973-980.	1.0	11
134	MRI Brain Image Segmentation with Supervised SOM and Probability-Based Clustering Method. <i>Lecture Notes in Computer Science</i> , 2011, , 49-58.	1.0	10
135	FDG and PIB biomarker PET analysis for the Alzheimer's disease detection using Association Rules. , 2012, , .		10
136	Multivariate Pattern Analysis Techniques for Electroencephalography Data to Study Flanker Interference Effects. <i>International Journal of Neural Systems</i> , 2020, 30, 2050024.	3.2	10
137	Application of fuzzy logic for Alzheimer's disease diagnosis. , 2015, , .		9
138	Assessing Mild Cognitive Impairment Progression using a Spherical Brain Mapping of Magnetic Resonance Imaging. <i>Journal of Alzheimer's Disease</i> , 2018, 65, 713-729.	1.2	9
139	Periodogram Connectivity of EEG Signals for the Detection of Dyslexia. <i>Lecture Notes in Computer Science</i> , 2019, , 350-359.	1.0	9
140	Automatic System for Alzheimer's Disease Diagnosis Using Eigenbrains and Bayesian Classification Rules. <i>Lecture Notes in Computer Science</i> , 2009, , 949-956.	1.0	9
141	Selecting Regions of Interest in SPECT Images Using Wilcoxon Test for the Diagnosis of Alzheimer's Disease. <i>Lecture Notes in Computer Science</i> , 2010, , 446-451.	1.0	9
142	Effective Diagnosis of Alzheimer's Disease by Means of Association Rules. <i>Lecture Notes in Computer Science</i> , 2010, , 452-459.	1.0	9
143	Tiled Sparse Coding in Eigenspaces for Image Classification. <i>International Journal of Neural Systems</i> , 2022, 32, 2250007.	3.2	9
144	Multivariate approaches for Alzheimer's disease diagnosis using Bayesian classifiers. , 2009, , .		8

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145	Bilateral symmetry aspects in computer-aided Alzheimer's disease diagnosis by single-photon emission-computed tomography imaging. <i>Artificial Intelligence in Medicine</i> , 2012, 56, 191-198.	3.8	8
146	Component-based technique for determining the effects of acupuncture for fighting migraine using SPECT images. <i>Expert Systems With Applications</i> , 2013, 40, 44-51.	4.4	8
147	Texture Features Based Detection of Parkinson's Disease on DaTSCAN Images. <i>Lecture Notes in Computer Science</i> , 2013, , 266-277.	1.0	8
148	Analysis of 18F-DMFP PET data using multikernel classification in order to assist the diagnosis of Parkinsonism. , 2015, , .		8
149	Early Detection of the Alzheimer Disease Combining Feature Selection and Kernel Machines. <i>Lecture Notes in Computer Science</i> , 2009, , 410-417.	1.0	8
150	An Optimal Approach for Selecting Discriminant Regions for the Diagnosis of Alzheimer's Disease. <i>Current Alzheimer Research</i> , 2016, 13, 838-844.	0.7	8
151	BOLD Coupling between Lesioned and Healthy Brain Is Associated with Glioma Patients's Recovery. <i>Cancers</i> , 2021, 13, 5008.	1.7	8
152	MVPAlab: A machine learning decoding toolbox for multidimensional electroencephalography data. <i>Computer Methods and Programs in Biomedicine</i> , 2022, 214, 106549.	2.6	8
153	Neurological image classification for the Alzheimer's Disease diagnosis using Kernel PCA and Support Vector Machines. , 2009, , .		7
154	SPECT image classification based on NMSE feature correlation weighting and SVM. , 2009, , .		7
155	Automatic Classification System for the Diagnosis of Alzheimer Disease Using Component-Based SVM Aggregations. <i>Lecture Notes in Computer Science</i> , 2009, , 402-409.	1.0	7
156	Automatic Diagnosis of Schizophrenia in EEG Signals Using Functional Connectivity Features and CNN-LSTM Model. <i>Lecture Notes in Computer Science</i> , 2022, , 63-73.	1.0	7
157	Optimizing blind source separation with guided genetic algorithms. <i>Neurocomputing</i> , 2006, 69, 1442-1457.	3.5	6
158	Revised Contextual LRT for Voice Activity Detection. , 2007, , .		6
159	Early Alzheimer's disease diagnosis using partial least squares and random forests. , 2010, , .		6
160	Effective diagnosis of Alzheimer's disease by means of large margin-based methodology. <i>BMC Medical Informatics and Decision Making</i> , 2012, 12, 79.	1.5	6
161	Independent Component Analysis-Based Classification of Alzheimer's Disease from Segmented MRI Data. <i>Lecture Notes in Computer Science</i> , 2015, , 78-87.	1.0	6
162	Multiclass classification of 18F-DMFP-PET data to assist the diagnosis of parkinsonism. , 2016, , .		6

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163	Fuzzy computer-aided diagnosis of Alzheimer's disease using MRI and PET statistical features. , 2016, , .		6
164	PeMNet for Pectoral Muscle Segmentation. Biology, 2022, 11, 134.	1.3	6
165	Clustering approach for the classificarion of SPECT images. , 2008, , .		5
166	Real Time QRS Detection Based on M-ary Likelihood Ratio Test on the DFT Coefficients. PLoS ONE, 2014, 9, e110629.	1.1	5
167	BIDIMENSIONAL ENSEMBLE EMPIRICAL MODE DECOMPOSITION OF FUNCTIONAL BIOMEDICAL IMAGES. Advances in Adaptive Data Analysis, 2014, 06, 1450004.	0.6	5
168	Editorial (Thematic Issue: Statistical Signal Processing in the Analysis, Characterization and Detection) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.7	5
169	Label aided deep ranking for the automatic diagnosis of Parkinsonian syndromes. Neurocomputing, 2019, 330, 162-171.	3.5	5
170	Preliminary Study on Unilateral Sensorineural Hearing Loss Identification via Dual-Tree Complex Wavelet Transform and Multinomial Logistic Regression. Lecture Notes in Computer Science, 2017, , 289-297.	1.0	5
171	New Model for Time-Series Forecasting Using RBFs and Exogenous Data. , 2003, , 3-12.		5
172	Support Vector Machines and Neural Networks for the Alzheimerâ€™s Disease Diagnosis Using PCA. Lecture Notes in Computer Science, 2009, , 142-149.	1.0	5
173	Functional Brain Image Classification Techniques for Early Alzheimer Disease Diagnosis. Lecture Notes in Computer Science, 2009, , 150-157.	1.0	5
174	A Vector Quantization-Based Spike Compression Approach Dedicated to Multichannel Neural Recording Microsystems. International Journal of Neural Systems, 2021, , 2250001.	3.2	5
175	Simulated Annealing Based-GA Using Injective Contrast Functions for BSS. Lecture Notes in Computer Science, 2005, , 585-592.	1.0	4
176	Assessing the Performance of Several Fitness Functions in a Genetic Algorithm for Nonlinear Separation of Sources. Lecture Notes in Computer Science, 2005, , 863-872.	1.0	4
177	Machine learning for very early Alzheimer's Disease diagnosis; a ¹⁸ F-FDG and PiB PET comparison. , 2010, , .		4
178	Elitist genetic algorithm guided by higher order statistic for blind separation of digital signals. , 2010, , .		4
179	Two approaches to selecting set of voxels for the diagnosis of Alzheimer's disease using brain SPECT images. , 2011, 21, 746-755.		4
180	Computer-Aided Diagnosis in Neuroimaging. , 0, , .		4

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181	Improving short-term prediction from MCI to AD by applying searchlight analysis. , 2016, , .		4
182	Ensemble Tree Learning Techniques for Magnetic Resonance Image Analysis. Smart Innovation, Systems and Technologies, 2016, , 395-404.	0.5	4
183	A proposed computer-aided diagnosis system for Parkinson's disease classification using 123I-FP-CIT imaging. , 2017, , .		4
184	A Deep Decomposition of MRI to Explore Neurodegeneration in Alzheimer's Disease. , 2018, , .		4
185	Using CT Data to Improve the Quantitative Analysis of 18F-FBB PET Neuroimages. Frontiers in Aging Neuroscience, 2018, 10, 158.	1.7	4
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