

# Juan M Gorriz

## List of Publications by Year in descending order

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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	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
2	MVPALab: A machine learning decoding toolbox for multidimensional electroencephalography data. Computer Methods and Programs in Biomedicine, 2022, 214, 106549.	2.6	8
3	PeMNet for Pectoral Muscle Segmentation. Biology, 2022, 11, 134.	1.3	6
4	New insights into the evaluation of peripheral nerves lesions: a survival guide for beginners. Neuroradiology, 2022, 64, 875.	1.1	3
5	Quantifying Differences Between Affine and Nonlinear Spatial Normalization of FP-CIT Spect Images. International Journal of Neural Systems, 2022, 32, 2250019.	3.2	12
6	Tiled Sparse Coding in Eigenspaces for Image Classification. International Journal of Neural Systems, 2022, 32, 2250007.	3.2	9
7	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
8	RDNet: ResNet-18 with Dropout for Blood Cell Classification. Lecture Notes in Computer Science, 2022, , 136-144.	1.0	2
9	Automatic Classification System for Diagnosis of Cognitive Impairment Based on the Clock-Drawing Test. Lecture Notes in Computer Science, 2022, , 34-42.	1.0	1
10	Sleep Apnea Diagnosis Using Complexity Features of EEG Signals. Lecture Notes in Computer Science, 2022, , 74-83.	1.0	1
11	Automatic Diagnosis of Schizophrenia in EEG Signals Using Functional Connectivity Features and CNN-LSTM Model. Lecture Notes in Computer Science, 2022, , 63-73.	1.0	7
12	A hardware efficient intra-cortical neural decoding approach based on spike train temporal information. Integrated Computer-Aided Engineering, 2022, , 1-15.	2.5	0
13	Deep residual transfer learning for automatic diagnosis and grading of diabetic retinopathy. Neurocomputing, 2021, 452, 424-434.	3.5	44
14	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
15	Artificial intelligence in radiology: relevance of collaborative work between radiologists and engineers for building a multidisciplinary team. Clinical Radiology, 2021, 76, 317-324.	0.5	23
16	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
17	Data fusion based on Searchlight analysis for the prediction of Alzheimer's disease. Expert Systems With Applications, 2021, 185, 115549.	4.4	27
18	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

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19	A Vector Quantization-Based Spike Compression Approach Dedicated to Multichannel Neural Recording Microsystems. <i>International Journal of Neural Systems</i> , 2021, , 2250001.	3.2	5
20	BOLD Coupling between Lesioned and Healthy Brain Is Associated with Glioma Patients's Recovery. <i>Cancers</i> , 2021, 13, 5008.	1.7	8
21	Automatic Diagnosis of Schizophrenia in EEG Signals Using CNN-LSTM Models. <i>Frontiers in Neuroinformatics</i> , 2021, 15, 777977.	1.3	82
22	Studying the Manifold Structure of Alzheimer's Disease: A Deep Learning Approach Using Convolutional Autoencoders. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020, 24, 17-26.	3.9	127
23	Autosomal dominantly inherited alzheimer disease: Analysis of genetic subgroups by machine learning. <i>Information Fusion</i> , 2020, 58, 153-167.	11.7	17
24	Advances in multimodal data fusion in neuroimaging: Overview, challenges, and novel orientation. <i>Information Fusion</i> , 2020, 64, 149-187.	11.7	235
25	Morphological Characterization of Functional Brain Imaging by Isosurface Analysis in Parkinson's Disease. <i>International Journal of Neural Systems</i> , 2020, 30, 2050044.	3.2	24
26	EEG Connectivity Analysis Using Denoising Autoencoders for the Detection of Dyslexia. <i>International Journal of Neural Systems</i> , 2020, 30, 2050037.	3.2	21
27	Artificial intelligence within the interplay between natural and artificial computation: Advances in data science, trends and applications. <i>Neurocomputing</i> , 2020, 410, 237-270.	3.5	121
28	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
29	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
30	Long Short-Term Memory Networks for the Prediction of Transformer Temperature for Energy Distribution Smart Grids. <i>Contributions To Statistics</i> , 2020, , 319-331.	0.2	2
31	Editorial: Deep Learning in Aging Neuroscience. <i>Frontiers in Neuroinformatics</i> , 2020, 14, 573974.	1.3	1
32	Spatial Registration of Neuroimaging Data: Analysis of the Convenience of Performing Non-Affine Transformations. , 2020, , .		0
33	Estimating the Severity of Alzheimer's Disease Using Convolutional Neural Networks and Magnetic Resonance Imaging Data. , 2020, , .		0
34	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
35	Classification Improvement for Parkinson's Disease Diagnosis Using the Gradient Magnitude in DaTSCAN SPECT Images. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 100-109.	0.5	1
36	Case-Based Support Vector Optimization for Medical-Imaging Imbalanced Datasets. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 221-229.	0.5	0

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37	Editorial: Multimodal and Longitudinal Bioimaging Methods for Characterizing the Progressive Course of Dementia. <i>Frontiers in Aging Neuroscience</i> , 2019, 11, 45.	1.7	4
38	Parkinson's Disease Detection Using Isosurfaces-Based Features and Convolutional Neural Networks. <i>Frontiers in Neuroinformatics</i> , 2019, 13, 48.	1.3	61
39	Periodogram Connectivity of EEG Signals for the Detection of Dyslexia. <i>Lecture Notes in Computer Science</i> , 2019, , 350-359.	1.0	9
40	Label aided deep ranking for the automatic diagnosis of Parkinsonian syndromes. <i>Neurocomputing</i> , 2019, 330, 162-171.	3.5	5
41	Assisted Diagnosis of Parkinsonism Based on the Striatal Morphology. <i>International Journal of Neural Systems</i> , 2019, 29, 1950011.	3.2	24
42	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
43	A Machine Learning Approach to Reveal the NeuroPhenotypes of Autisms. <i>International Journal of Neural Systems</i> , 2019, 29, 1850058.	3.2	31
44	Empirical Functional PCA for 3D Image Feature Extraction Through Fractal Sampling. <i>International Journal of Neural Systems</i> , 2019, 29, 1850040.	3.2	12
45	Isosurface Modelling of DatSCAN Images for Parkinson Disease Diagnosis. <i>Lecture Notes in Computer Science</i> , 2019, , 360-368.	1.0	3
46	Comparison Between Affine and Non-affine Transformations Applied to $^{123}\text{I}$ -FP-CIT SPECT Images Used for Parkinson's Disease Diagnosis. <i>Lecture Notes in Computer Science</i> , 2019, , 379-388.	1.0	3
47	Retinal Blood Vessel Segmentation by Multi-channel Deep Convolutional Autoencoder. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 37-46.	0.5	1
48	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
49	Ensemble of random forests One vs. Rest classifiers for MCI and AD prediction using ANOVA cortical and subcortical feature selection and partial least squares. <i>Journal of Neuroscience Methods</i> , 2018, 302, 47-57.	1.3	69
50	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
51	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
52	Improved separation of Alzheimer's disease and related disorders using dual-point amyloid-PET. , 2018, , .		0
53	Segmentation of Molecular Neuroimages Using Hidden Markov Random Fields in Order to Improve the Assisted Diagnosis of Neurodegenerative Diseases. , 2018, , .		0
54	$^{123}\text{I}$ FP-CIT SPECT brain imaging for Parkinson's diagnosis using contour lines. , 2018, , .		1

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55	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
56	Usefulness of Dual-Point Amyloid PET Scans in Appropriate Use Criteria: A Multicenter Study. Journal of Alzheimer's Disease, 2018, 65, 765-779.	1.2	14
57	A Deep Decomposition of MRI to Explore Neurodegeneration in Alzheimer's Disease. , 2018, , .		4
58	Ensemble classification of heterogeneous biomarkers in the diagnosis of Parkinsonism. , 2018, , .		0
59	Alzheimer's Disease Computer-Aided Diagnosis: Histogram-Based Analysis of Regional MRI Volumes for Feature Selection and Classification. Journal of Alzheimer's Disease, 2018, 65, 819-842.	1.2	17
60	Using Early Acquisitions of Amyloid-PET as a Surrogate of FDG-PET: A Machine Learning Based Approach. , 2018, , .		0
61	Convolutional Neural Networks for Neuroimaging in Parkinson's Disease: Is Preprocessing Needed?. International Journal of Neural Systems, 2018, 28, 1850035.	3.2	73
62	Using CT Data to Improve the Quantitative Analysis of 18F-FBB PET Neuroimages. Frontiers in Aging Neuroscience, 2018, 10, 158.	1.7	4
63	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
64	P300 brainwave extraction from EEG signals: An unsupervised approach. Expert Systems With Applications, 2017, 74, 1-10.	4.4	27
65	Case-based statistical learning applied to SPECT image classification. , 2017, , .		2
66	PET Image Classification Using HHT-Based Features Through Fractal Sampling. Lecture Notes in Computer Science, 2017, , 314-323.	1.0	2
67	Case-Based Statistical Learning: A Non Parametric Implementation Applied to SPECT Images. Lecture Notes in Computer Science, 2017, , 305-313.	1.0	0
68	Analysis of <sup>18</sup> F-DMFP-PET data using Hidden Markov Random Field and the Gaussian distribution to assist the diagnosis of Parkinsonism. Proceedings of SPIE, 2017, , .	0.8	0
69	A semi-supervised learning approach for model selection based on class-hypothesis testing. Expert Systems With Applications, 2017, 90, 40-49.	4.4	14
70	Case-Based Statistical Learning: A Non-Parametric Implementation With a Conditional-Error Rate SVM. IEEE Access, 2017, 5, 11468-11478.	2.6	31
71	Assisting the Diagnosis of Neurodegenerative Disorders Using Principal Component Analysis and TensorFlow. Advances in Intelligent Systems and Computing, 2017, , 43-52.	0.5	2
72	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

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73	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
74	A proposed computer-aided diagnosis system for Parkinson's disease classification using 123I-FP-CIT imaging. , 2017, , .		4
75	Discriminative Sparse Features for Alzheimer's Disease Diagnosis Using Multimodal Image Data. Current Alzheimer Research, 2017, 15, 67-79.	0.7	16
76	Preprocessing of 18F-DMFP-PET Data Based on Hidden Markov Random Fields and the Gaussian Distribution. Frontiers in Aging Neuroscience, 2017, 9, 326.	1.7	12
77	Multivariate Analysis of 18F-DMFP PET Data to Assist the Diagnosis of Parkinsonism. Frontiers in Neuroinformatics, 2017, 11, 23.	1.3	32
78	Functional Brain Imaging Synthesis Based on Image Decomposition and Kernel Modeling: Application to Neurodegenerative Diseases. Frontiers in Neuroinformatics, 2017, 11, 65.	1.3	15
79	A Heavy Tailed Expectation Maximization Hidden Markov Random Field Model with Applications to Segmentation of MRI. Frontiers in Neuroinformatics, 2017, 11, 66.	1.3	1
80	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
81	On a Heavy-Tailed Intensity Normalization of the Parkinson's Progression Markers Initiative Brain Database. Lecture Notes in Computer Science, 2017, , 298-304.	1.0	1
82	A 3D Convolutional Neural Network Approach for the Diagnosis of Parkinson's Disease. Lecture Notes in Computer Science, 2017, , 324-333.	1.0	25
83	Automatic Separation of Parkinsonian Patients and Control Subjects Based on the Striatal Morphology. Lecture Notes in Computer Science, 2017, , 345-352.	1.0	3
84	Learning Longitudinal MRI Patterns by SICE and Deep Learning: Assessing the Alzheimer's Disease Progression. Communications in Computer and Information Science, 2017, , 413-424.	0.4	14
85	Evaluating Alzheimer's Disease Diagnosis Using Texture Analysis. Communications in Computer and Information Science, 2017, , 470-481.	0.4	4
86	Tree-Based Ensemble Learning Techniques in the Analysis of Parkinsonian Syndromes. Communications in Computer and Information Science, 2017, , 459-469.	0.4	0
87	Editorial (Thematic Issue: Statistical Signal Processing in the Analysis, Characterization and Detection) Tj ETQq1 1 0,784314 rgBT /Over	0,7	14
88	Simulating functional brain images in Alzheimer's disease. , 2016, , .		0
89	Magnetic resonance image classification using nonnegative matrix factorization and ensemble tree learning techniques. , 2016, , .		2
90	Improving short-term prediction from MCI to AD by applying searchlight analysis. , 2016, , .		4

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91	Multiclass classification of 18F-DMFP-PET data to assist the diagnosis of parkinsonism. , 2016, , .		6
92	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
93	Statistical feature selection and classification models for Alzheimer's disease progression assessment. , 2016, , .		0
94	MRI brain segmentation using hidden Markov random fields with alpha-stable distributions. , 2016, , .		2
95	Fuzzy computer-aided diagnosis of Alzheimer's disease using MRI and PET statistical features. , 2016, , .		6
96	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
97	Ensemble Tree Learning Techniques for Magnetic Resonance Image Analysis. Smart Innovation, Systems and Technologies, 2016, , 395-404.	0.5	4
98	Using frequency analysis to improve the precision of human body posture algorithms based on Kalman filters. Computers in Biology and Medicine, 2016, 72, 229-238.	3.9	15
99	Automated Diagnosis of Parkinsonian Syndromes by Deep Sparse Filtering-Based Features. Smart Innovation, Systems and Technologies, 2016, , 249-258.	0.5	14
100	Combining Feature Extraction Methods to Assist the Diagnosis of Alzheimer's Disease. Current Alzheimer Research, 2016, 13, 831-837.	0.7	3
101	A Spherical Brain Mapping of MR Images for the Detection of Alzheimer's Disease. Current Alzheimer Research, 2016, 13, 575-588.	0.7	25
102	An Optimal Approach for Selecting Discriminant Regions for the Diagnosis of Alzheimer's Disease. Current Alzheimer Research, 2016, 13, 838-844.	0.7	8
103	Functional Biomedical Images of Alzheimer's Disease a Green's Functionbased Empirical Mode Decomposition Study. Current Alzheimer Research, 2016, 13, 695-707.	0.7	0
104	Short-term MCI-to-AD prediction using MRI, neuropsychological scores and ensemble tree learning techniques. , 2015, , .		3
105	Analysis of 18F-DMFP PET data using multikernel classification in order to assist the diagnosis of Parkinsonism. , 2015, , .		8
106	Exploratory graphical models of functional and structural connectivity patterns for Alzheimer's Disease diagnosis. Frontiers in Computational Neuroscience, 2015, 9, 132.	1.2	51
107	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
108	Independent Component Analysis-Based Classification of Alzheimer's Disease from Segmented MRI Data. Lecture Notes in Computer Science, 2015, , 78-87.	1.0	6

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109	A Volumetric Radial LBP Projection of MRI Brain Images for the Diagnosis of Alzheimer's Disease. Lecture Notes in Computer Science, 2015, , 19-28.	1.0	3
110	Building a FP-CIT SPECT Brain Template Using a Posterization Approach. Neuroinformatics, 2015, 13, 391-402.	1.5	31
111	Intensity normalization of DaTSCAN SPECT imaging using a model-based clustering approach. Applied Soft Computing Journal, 2015, 37, 234-244.	4.1	14
112	Fuzzy classification of Alzheimer's disease using statistical moments. , 2015, , .		3
113	Application of fuzzy logic for Alzheimer's disease diagnosis. , 2015, , .		9
114	Digital image analysis for automatic enumeration of malaria parasites using morphological operations. Expert Systems With Applications, 2015, 42, 3041-3047.	4.4	65
115	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
116	Intensity normalization in the analysis of functional DaTSCAN SPECT images: The $\hat{\mu}$ -stable distribution-based normalization method vs other approaches. Neurocomputing, 2015, 150, 4-15.	3.5	13
117	Comparison between Different Intensity Normalization Methods in 123I-Ioflupane Imaging for the Automatic Detection of Parkinsonism. PLoS ONE, 2015, 10, e0130274.	1.1	17
118	Intensity Normalization of 123 I-Ioflupane-SPECT Brain Images Using a Model-Based Multivariate Linear Regression Approach. Lecture Notes in Computer Science, 2015, , 68-77.	1.0	0
119	Study of the Histogram of the Hippocampus in MRI Using the $\hat{\mu}$ -stable Distribution. Lecture Notes in Computer Science, 2015, , 216-221.	1.0	0
120	Automatic ROI Selection in Structural Brain MRI Using SOM 3D Projection. PLoS ONE, 2014, 9, e93851.	1.1	28
121	Real Time QRS Detection Based on M-ary Likelihood Ratio Test on the DFT Coefficients. PLoS ONE, 2014, 9, e110629.	1.1	5
122	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
123	Identifying endophenotypes of autism: a multivariate approach. Frontiers in Computational Neuroscience, 2014, 8, 60.	1.2	27
124	Spatial component analysis of MRI data for Alzheimer's disease diagnosis: a Bayesian network approach. Frontiers in Computational Neuroscience, 2014, 8, 156.	1.2	14
125	Applications of Gaussian mixture models and mean squared error within DatSCAN SPECT imaging. , 2014, , .		1
126	BIDIMENSIONAL ENSEMBLE EMPIRICAL MODE DECOMPOSITION OF FUNCTIONAL BIOMEDICAL IMAGES. Advances in Adaptive Data Analysis, 2014, 06, 1450004.	0.6	5



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127	Advanced Computer Vision Approaches in Biomedical Image Analysis. Computational and Mathematical Methods in Medicine, 2014, 2014, 1-2.	0.7	2
128	Automatic detection of Parkinsonism using significance measures and component analysis in DaTSCAN imaging. Neurocomputing, 2014, 126, 58-70.	3.5	49
129	Improving MR brain image segmentation using self-organising maps and entropy-gradient clustering. Information Sciences, 2014, 262, 117-136.	4.0	60
130	Combining PET Images and Neuropsychological Test Data for Automatic Diagnosis of Alzheimer's Disease. PLoS ONE, 2014, 9, e88687.	1.1	31
131	Why Using the Alpha-stable Distribution in Neuroimage?. , 2014, , .		4
132	Multimodal image data fusion for Alzheimer's Disease diagnosis by sparse representation. Studies in Health Technology and Informatics, 2014, 207, 11-8.	0.2	2
133	Linear intensity normalization of DaTSCAN images using Mean Square Error and a model-based clustering approach. Studies in Health Technology and Informatics, 2014, 207, 251-60.	0.2	4
134	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
135	Improving MRI segmentation with probabilistic GHSOM and multiobjective optimization. Neurocomputing, 2013, 114, 118-131.	3.5	37
136	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
137	Integrating discretization and association rule-based classification for Alzheimer's disease diagnosis. Expert Systems With Applications, 2013, 40, 1571-1578.	4.4	39
138	Parametrization of textural patterns in 123I-ioflupane imaging for the automatic detection of Parkinsonism. Medical Physics, 2013, 41, 012502.	1.6	43
139	Automatic Differentiation between Alzheimer's Disease and Mild Cognitive Impairment Combining PET Data and Psychological Scores. , 2013, , .		1
140	Parameterization of the distribution of white and grey matter in MRI using the $\alpha$ -stable distribution. Computers in Biology and Medicine, 2013, 43, 559-567.	3.9	16
141	Component-based technique for determining the effects of acupuncture for fighting migraine using SPECT images. Expert Systems With Applications, 2013, 40, 44-51.	4.4	8
142	Functional activity maps based on significance measures and Independent Component Analysis. Computer Methods and Programs in Biomedicine, 2013, 111, 255-268.	2.6	19
143	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
144	Two fully-unsupervised methods for MR brain image segmentation using SOM-based strategies. Applied Soft Computing Journal, 2013, 13, 2668-2682.	4.1	79

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145	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
146	Linear intensity normalization of FP-CIT SPECT brain images using the $\hat{\mu}$ -stable distribution. NeuroImage, 2013, 65, 449-455.	2.1	45
147	Automatic Determination of Validity of Input Data Used in Ellipsoid Fitting MARG Calibration Algorithms. Sensors, 2013, 13, 11797-11817.	2.1	25
148	Texture Features Based Detection of Parkinson's Disease on DaTSCAN Images. Lecture Notes in Computer Science, 2013, , 266-277.	1.0	8
149	Improving the Convergence Rate in Affine Registration of PET and SPECT Brain Images Using Histogram Equalization. Computational and Mathematical Methods in Medicine, 2013, 2013, 1-8.	0.7	3
150	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
151	Early Computer Aided Diagnosis of Parkinson's Disease Based on Nearest Neighbor Strategy and striatum Activation Threshold. Lecture Notes in Computer Science, 2013, , 258-265.	1.0	0
152	Automatic Orientation of Functional Brain Images for Multiplatform Software. Lecture Notes in Computer Science, 2013, , 406-411.	1.0	0
153	Erratum to "Unsupervised Neural Techniques Applied to MR Brain Image Segmentation". Advances in Artificial Neural Systems, 2013, 2013, 1-1.	1.0	1
154	Automatic assistance to Parkinson's disease diagnosis in DaTSCAN SPECT imaging. Medical Physics, 2012, 39, 5971-5980.	1.6	92
155	Brain Connectivity Analysis: A Short Survey. Computational Intelligence and Neuroscience, 2012, 2012, 1-21.	1.1	109
156	A DSP embedded system. Application to digital communication systems. , 2012, , .		1
157	Empirical Mode Decomposition as a feature extraction method for Alzheimer's Disease Diagnosis. , 2012, , .		1
158	FDG and PIB biomarker PET analysis for the Alzheimer's disease detection using Association Rules. , 2012, , .		10
159	Intensity normalization of FP-CIT SPECT in patients with Parkinsonism using the $\hat{\mu}$ -stable distribution. , 2012, , .		2
160	Improved Parkinsonism diagnosis using a partial least squares based approach. Medical Physics, 2012, 39, 4395-4403.	1.6	55
161	Bilateral symmetry aspects in computer-aided Alzheimer's disease diagnosis by single-photon emission-computed tomography imaging. Artificial Intelligence in Medicine, 2012, 56, 191-198.	3.8	8
162	Functional brain image classification using association rules defined over discriminant regions. Pattern Recognition Letters, 2012, 33, 1666-1672.	2.6	18

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163	Association rule-based feature selection method for Alzheimer's disease diagnosis. Expert Systems With Applications, 2012, 39, 11766-11774.	4.4	57
164	Effective diagnosis of Alzheimer's disease by means of large margin-based methodology. BMC Medical Informatics and Decision Making, 2012, 12, 79.	1.5	6
165	On the empirical mode decomposition applied to the analysis of brain SPECT images. Expert Systems With Applications, 2012, 39, 13451-13461.	4.4	17
166	Detection of (In)activity Periods in Human Body Motion Using Inertial Sensors: A Comparative Study. Sensors, 2012, 12, 5791-5814.	2.1	45
167	A Decision Support System for the assisted diagnosis of brain tumors: A feasibility study for $^{18}\text{F}$ -FDG PET preclinical studies. , 2012, 2012, 6255-8.		0
168	Unsupervised Neural Techniques Applied to MR Brain Image Segmentation. Advances in Artificial Neural Systems, 2012, 2012, 1-7.	1.0	20
169	Advances in Unsupervised Learning Techniques Applied to Biosciences and Medicine. Advances in Artificial Neural Systems, 2012, 2012, 1-2.	1.0	0
170	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
171	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
172	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
173	MRI Brain Image Segmentation with Supervised SOM and Probability-Based Clustering Method. Lecture Notes in Computer Science, 2011, , 49-58.	1.0	10
174	Two approaches to selecting set of voxels for the diagnosis of Alzheimer's disease using brain SPECT images. , 2011, 21, 746-755.		4
175	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
176	$^{18}\text{F}$ -FDG PET imaging analysis for computer aided Alzheimer's diagnosis. Information Sciences, 2011, 181, 903-916.	4.0	101
177	GMM based SPECT image classification for the diagnosis of Alzheimer's disease. Applied Soft Computing Journal, 2011, 11, 2313-2325.	4.1	80
178	Computer aided diagnosis of Alzheimer's disease using component based SVM. Applied Soft Computing Journal, 2011, 11, 2376-2382.	4.1	59
179	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
180	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

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181	Accurate human limb angle measurement: sensor fusion through Kalman, least mean squares and recursive least-squares adaptive filtering. Measurement Science and Technology, 2011, 22, 025801.	1.4	20
182	MR brain image segmentation by growing hierarchical SOM and probability clustering. Electronics Letters, 2011, 47, 585.	0.5	23
183	Bayesian Segmentation of Magnetic Resonance Images Using the $\hat{\pm}$ -Stable Distribution. Lecture Notes in Computer Science, 2011, , 99-106.	1.0	2
184	Effective Diagnosis of Alzheimer's Disease by Means of Distance Metric Learning and Random Forest. Lecture Notes in Computer Science, 2011, , 59-67.	1.0	3
185	Distance Metric Learning as Feature Reduction Technique for the Alzheimer's Disease Diagnosis. Lecture Notes in Computer Science, 2011, , 68-76.	1.0	1
186	Analysis of Spect Brain Images Using Wilcoxon and Relative Entropy Criteria and Quadratic Multivariate Classifiers for the Diagnosis of Alzheimer's Disease. Lecture Notes in Computer Science, 2011, , 41-48.	1.0	0
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