

Juan M Gorriz

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

296
papers

4,581
citations

38
h-index

56
g-index

325
ext. papers

5,808
ext. citations

3.1
avg, IF

5.85
L-index

#	Paper	IF	Citations
296	New insights into the evaluation of peripheral nerves lesions: a survival guide for beginners.. <i>Neuroradiology</i> , 2022 , 64, 875	3.2	0
295	Quantifying Differences Between Affine and Nonlinear Spatial Normalization of FP-CIT Spect Images.. <i>International Journal of Neural Systems</i> , 2022 , 2250019	6.2	2
294	An overview of artificial intelligence techniques for diagnosis of Schizophrenia based on magnetic resonance imaging modalities: Methods, challenges, and future works.. <i>Computers in Biology and Medicine</i> , 2022 , 146, 105554	7	9
293	RDNet: ResNet-18 with Dropout for Blood Cell Classification. <i>Lecture Notes in Computer Science</i> , 2022 , 136-144	0.9	
292	Modelling the Progression of the Symptoms of Parkinsons Disease Using a Nonlinear Decomposition of 123I FP-CIT SPECT Images. <i>Lecture Notes in Computer Science</i> , 2022 , 104-113	0.9	
291	Towards Mixed Mode Biomarkers: Combining Structural and Functional Information by Deep Learning. <i>Lecture Notes in Computer Science</i> , 2022 , 95-103	0.9	
290	ConvNet-CA: A Lightweight Attention-Based CNN for Brain Disease Detection. <i>Lecture Notes in Computer Science</i> , 2022 , 3-12	0.9	
289	Automatic Diagnosis of Myocarditis in Cardiac Magnetic Images Using CycleGAN and Deep PreTrained Models. <i>Lecture Notes in Computer Science</i> , 2022 , 145-155	0.9	0
288	Automatic Classification System for Diagnosis of Cognitive Impairment Based on the Clock-Drawing Test. <i>Lecture Notes in Computer Science</i> , 2022 , 34-42	0.9	
287	Sleep Apnea Diagnosis Using Complexity Features of EEG Signals. <i>Lecture Notes in Computer Science</i> , 2022 , 74-83	0.9	
286	Quantifying Inter-hemispheric Differences in Parkinson Disease Using Siamese Networks. <i>Lecture Notes in Computer Science</i> , 2022 , 156-165	0.9	
285	CAD System for Parkinson Disease with Penalization of Non-significant or High-Variability Input Data Sources. <i>Lecture Notes in Computer Science</i> , 2022 , 23-33	0.9	
284	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	0.9	0
283	Analyzing Statistical Inference Maps Using MRI Images for Parkinson Disease. <i>Lecture Notes in Computer Science</i> , 2022 , 166-175	0.9	
282	Automatic Diagnosis of Schizophrenia in EEG Signals Using CNN-LSTM Models.. <i>Frontiers in Neuroinformatics</i> , 2021 , 15, 777977	3.9	17
281	MVPAlab: A machine learning decoding toolbox for multidimensional electroencephalography data.. <i>Computer Methods and Programs in Biomedicine</i> , 2021 , 214, 106549	6.9	1
280	A Vector Quantization-Based Spike Compression Approach Dedicated to Multichannel Neural Recording Microsystems.. <i>International Journal of Neural Systems</i> , 2021 , 2250001	6.2	2

279	BOLD Coupling between Lesioned and Healthy Brain Is Associated with Glioma Patients' Recovery. <i>Cancers</i> , 2021 , 13,	6.6	2
278	Deep residual transfer learning for automatic diagnosis and grading of diabetic retinopathy. <i>Neurocomputing</i> , 2021 , 452, 424-434	5.4	8
277	Covid-19 classification by FGCNet with deep feature fusion from graph convolutional network and convolutional neural network. <i>Information Fusion</i> , 2021 , 67, 208-229	16.7	115
276	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	2.9	7
275	Applications of deep learning techniques for automated multiple sclerosis detection using magnetic resonance imaging: A review. <i>Computers in Biology and Medicine</i> , 2021 , 136, 104697	7	38
274	Data fusion based on Searchlight analysis for the prediction of Alzheimer's disease. <i>Expert Systems With Applications</i> , 2021 , 185, 115549	7.8	5
273	Advances in Data Preprocessing for Biomedical Data Fusion: An Overview of the Methods, Challenges, and Prospects. <i>Information Fusion</i> , 2021 , 76, 376-421	16.7	18
272	Tiled Sparse Coding in Eigenspaces for Image Classification.. <i>International Journal of Neural Systems</i> , 2021 , 2250007	6.2	0
271	Morphological Characterization of Functional Brain Imaging by Isosurface Analysis in Parkinson's Disease. <i>International Journal of Neural Systems</i> , 2020 , 30, 2050044	6.2	11
270	EEG Connectivity Analysis Using Denoising Autoencoders for the Detection of Dyslexia. <i>International Journal of Neural Systems</i> , 2020 , 30, 2050037	6.2	9
269	Artificial intelligence within the interplay between natural and artificial computation: Advances in data science, trends and applications. <i>Neurocomputing</i> , 2020 , 410, 237-270	5.4	67
268	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	3.5	7
267	Multivariate Pattern Analysis Techniques for Electroencephalography Data to Study Flanker Interference Effects. <i>International Journal of Neural Systems</i> , 2020 , 30, 2050024	6.2	1
266	Long Short-Term Memory Networks for the Prediction of Transformer Temperature for Energy Distribution Smart Grids. <i>Contributions To Statistics</i> , 2020 , 319-331	0.1	1
265	Autosomal Dominantly Inherited Alzheimer Disease: Analysis of genetic subgroups by Machine Learning. <i>Information Fusion</i> , 2020 , 58, 153-167	16.7	8
264	Advances in multimodal data fusion in neuroimaging: Overview, challenges, and novel orientation. <i>Information Fusion</i> , 2020 , 64, 149-187	16.7	85
263	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	7.2	55
262	Label aided deep ranking for the automatic diagnosis of Parkinsonian syndromes. <i>Neurocomputing</i> , 2019 , 330, 162-171	5.4	3

261	Multivariate Pattern Analysis of Electroencephalography Data in a Demand-Selection Task. <i>Lecture Notes in Computer Science</i> , 2019 , 403-411	0.9	2
260	Assisted Diagnosis of Parkinsonism Based on the Striatal Morphology. <i>International Journal of Neural Systems</i> , 2019 , 29, 1950011	6.2	10
259	On the computation of distribution-free performance bounds: Application to small sample sizes in neuroimaging. <i>Pattern Recognition</i> , 2019 , 93, 1-13	7.7	10
258	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	0.4	7
257	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	0.4	1
256	Case-Based Support Vector Optimization for Medical-Imaging Imbalanced Datasets. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 221-229	0.4	
255	Parkinson's Disease Detection Using Isosurfaces-Based Features and Convolutional Neural Networks. <i>Frontiers in Neuroinformatics</i> , 2019 , 13, 48	3.9	30
254	Periodogram Connectivity of EEG Signals for the Detection of Dyslexia. <i>Lecture Notes in Computer Science</i> , 2019 , 350-359	0.9	6
253	Isosurface Modelling of DaTSCAN Images for Parkinson Disease Diagnosis. <i>Lecture Notes in Computer Science</i> , 2019 , 360-368	0.9	1
252	Comparison Between Affine and Non-affine Transformations Applied to I ¹²³ -FP-CIT SPECT Images Used for Parkinson's Disease Diagnosis. <i>Lecture Notes in Computer Science</i> , 2019 , 379-388	0.9	2
251	Retinal Blood Vessel Segmentation by Multi-channel Deep Convolutional Autoencoder. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 37-46	0.4	1
250	A Machine Learning Approach to Reveal the NeuroPhenotypes of Autisms. <i>International Journal of Neural Systems</i> , 2019 , 29, 1850058	6.2	16
249	Empirical Functional PCA for 3D Image Feature Extraction Through Fractal Sampling. <i>International Journal of Neural Systems</i> , 2019 , 29, 1850040	6.2	10
248	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	4.3	4
247	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	3	35
246	Machine-learning neuroimaging challenge for automated diagnosis of mild cognitive impairment: Lessons learnt. <i>Journal of Neuroscience Methods</i> , 2018 , 302, 10-13	3	9
245	Convolutional Neural Networks for Neuroimaging in Parkinson's Disease: Is Preprocessing Needed?. <i>International Journal of Neural Systems</i> , 2018 , 28, 1850035	6.2	48
244	Using CT Data to Improve the Quantitative Analysis of F-FBB PET Neuroimages. <i>Frontiers in Aging Neuroscience</i> , 2018 , 10, 158	5.3	3

243	Robust Ensemble Classification Methodology for I123-Ioflupane SPECT Images and Multiple Heterogeneous Biomarkers in the Diagnosis of Parkinson's Disease. <i>Frontiers in Neuroinformatics</i> , 2018 , 12, 53	3.9	23
242	3D Gabor Filters for Chest Segmentation in DCE-MRI. <i>Lecture Notes in Computer Science</i> , 2018 , 446-454	0.9	
241	Discriminative Sparse Features for Alzheimer's Disease Diagnosis Using Multimodal Image Data. <i>Current Alzheimer Research</i> , 2018 , 15, 67-79	3	8
240	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, 5308517	3.2	10
239	[123I]FP-CIT SPECT brain imaging for Parkinson's diagnosis using contour lines 2018 ,		1
238	Using deep neural networks along with dimensionality reduction techniques to assist the diagnosis of neurodegenerative disorders. <i>Logic Journal of the IGPL</i> , 2018 , 26, 618-628	1	18
237	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	4.3	6
236	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	4.3	14
235	P300 brainwave extraction from EEG signals: An unsupervised approach. <i>Expert Systems With Applications</i> , 2017 , 74, 1-10	7.8	18
234	Case-based statistical learning applied to SPECT image classification 2017 ,		2
233	PET Image Classification Using HHT-Based Features Through Fractal Sampling. <i>Lecture Notes in Computer Science</i> , 2017 , 314-323	0.9	1
232	Case-Based Statistical Learning: A Non Parametric Implementation Applied to SPECT Images. <i>Lecture Notes in Computer Science</i> , 2017 , 305-313	0.9	
231	Feature Extraction 2017 , 1-9		
230	A semi-supervised learning approach for model selection based on class-hypothesis testing. <i>Expert Systems With Applications</i> , 2017 , 90, 40-49	7.8	9
229	Case-Based Statistical Learning: A Non-Parametric Implementation With a Conditional-Error Rate SVM. <i>IEEE Access</i> , 2017 , 5, 11468-11478	3.5	22
228	Assisting the Diagnosis of Neurodegenerative Disorders Using Principal Component Analysis and TensorFlow. <i>Advances in Intelligent Systems and Computing</i> , 2017 , 43-52	0.4	2
227	On the brain structure heterogeneity of autism: Parsing out acquisition site effects with significance-weighted principal component analysis. <i>Human Brain Mapping</i> , 2017 , 38, 1208-1223	5.9	27
226	Independent Component Analysis-Support Vector Machine-Based Computer-Aided Diagnosis System for Alzheimer's with Visual Support. <i>International Journal of Neural Systems</i> , 2017 , 27, 1650050	6.2	54

225	A proposed computer-aided diagnosis system for Parkinson's disease classification using 123I-FP-CIT imaging 2017 ,		2
224	Preprocessing of F-DMFP-PET Data Based on Hidden Markov Random Fields and the Gaussian Distribution. <i>Frontiers in Aging Neuroscience</i> , 2017 , 9, 326	5.3	5
223	Multivariate Analysis of F-DMFP PET Data to Assist the Diagnosis of Parkinsonism. <i>Frontiers in Neuroinformatics</i> , 2017 , 11, 23	3.9	19
222	Functional Brain Imaging Synthesis Based on Image Decomposition and Kernel Modeling: Application to Neurodegenerative Diseases. <i>Frontiers in Neuroinformatics</i> , 2017 , 11, 65	3.9	9
221	A Heavy Tailed Expectation Maximization Hidden Markov Random Field Model with Applications to Segmentation of MRI. <i>Frontiers in Neuroinformatics</i> , 2017 , 11, 66	3.9	1
220	Preliminary Study on Unilateral Sensorineural Hearing Loss Identification via Dual-Tree Complex Wavelet Transform and Multinomial Logistic Regression. <i>Lecture Notes in Computer Science</i> , 2017 , 289-297	0.9	4
219	On a Heavy-Tailed Intensity Normalization of the Parkinson's Progression Markers Initiative Brain Database. <i>Lecture Notes in Computer Science</i> , 2017 , 298-304	0.9	1
218	A 3D Convolutional Neural Network Approach for the Diagnosis of Parkinson's Disease. <i>Lecture Notes in Computer Science</i> , 2017 , 324-333	0.9	14
217	Automatic Separation of Parkinsonian Patients and Control Subjects Based on the Striatal Morphology. <i>Lecture Notes in Computer Science</i> , 2017 , 345-352	0.9	2
216	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	0.3	10
215	Evaluating Alzheimer's Disease Diagnosis Using Texture Analysis. <i>Communications in Computer and Information Science</i> , 2017 , 470-481	0.3	2
214	Tree-Based Ensemble Learning Techniques in the Analysis of Parkinsonian Syndromes. <i>Communications in Computer and Information Science</i> , 2017 , 459-469	0.3	
213	Ensemble Tree Learning Techniques for Magnetic Resonance Image Analysis. <i>Smart Innovation, Systems and Technologies</i> , 2016 , 395-404	0.5	4
212	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, 229-38	7	11
211	MRI brain segmentation using hidden Markov random fields with alpha-stable distributions 2016 ,		1
210	Fuzzy computer-aided diagnosis of Alzheimer's disease using MRI and PET statistical features 2016 ,		3
209	A Structural Parametrization of the Brain Using Hidden Markov Models-Based Paths in Alzheimer's Disease. <i>International Journal of Neural Systems</i> , 2016 , 26, 1650024	6.2	21
208	Combining Feature Extraction Methods to Assist the Diagnosis of Alzheimer's Disease. <i>Current Alzheimer Research</i> , 2016 , 13, 831-7	3	3

207	A Spherical Brain Mapping of MR Images for the Detection of Alzheimer's Disease. <i>Current Alzheimer Research</i> , 2016 , 13, 575-88	3	22
206	An Optimal Approach for Selecting Discriminant Regions for the Diagnosis of Alzheimer's Disease. <i>Current Alzheimer Research</i> , 2016 , 13, 838-44	3	2
205	Automated Diagnosis of Parkinsonian Syndromes by Deep Sparse Filtering-Based Features. <i>Smart Innovation, Systems and Technologies</i> , 2016 , 249-258	0.5	12
204	Functional Biomedical Images of Alzheimer's Disease. A Green's Function-based Empirical Mode Decomposition Study. <i>Current Alzheimer Research</i> , 2016 , 13, 695-707	3	
203	Computer-Aided Diagnosis in Neuroimaging 2016 ,		3
202	Magnetic resonance image classification using nonnegative matrix factorization and ensemble tree learning techniques 2016 ,		2
201	Improving short-term prediction from MCI to AD by applying searchlight analysis 2016 ,		3
200	Multiclass classification of 18F-DMFP-PET data to assist the diagnosis of parkinsonism 2016 ,		4
199	Ensembles of Deep Learning Architectures for the Early Diagnosis of the Alzheimer's Disease. <i>International Journal of Neural Systems</i> , 2016 , 26, 1650025	6.2	188
198	Building a FP-CIT SPECT Brain Template Using a Posterization Approach. <i>Neuroinformatics</i> , 2015 , 13, 391-402	3.2	24
197	Intensity normalization of DaTSCAN SPECT imaging using a model-based clustering approach. <i>Applied Soft Computing Journal</i> , 2015 , 37, 234-244	7.5	11
196	Fuzzy classification of Alzheimer's disease using statistical moments 2015 ,		1
195	Application of fuzzy logic for Alzheimer's disease diagnosis 2015 ,		5
194	Digital image analysis for automatic enumeration of malaria parasites using morphological operations. <i>Expert Systems With Applications</i> , 2015 , 42, 3041-3047	7.8	51
193	Early diagnosis of Alzheimer's disease based on partial least squares, principal component analysis and support vector machine using segmented MRI images. <i>Neurocomputing</i> , 2015 , 151, 139-150	5.4	165
192	Intensity normalization in the analysis of functional DaTSCAN SPECT images: The stable distribution-based normalization method vs other approaches. <i>Neurocomputing</i> , 2015 , 150, 4-15	5.4	10
191	Short-term MCI-to-AD prediction using MRI, neuropsychological scores and ensemble tree learning techniques 2015 ,		1
190	Analysis of 18F-DMFP PET data using multikernel classification in order to assist the diagnosis of Parkinsonism 2015 ,		4

189	Exploratory graphical models of functional and structural connectivity patterns for Alzheimer's Disease diagnosis. <i>Frontiers in Computational Neuroscience</i> , 2015 , 9, 132	3.5	35
188	Distinguishing Parkinson's disease from atypical parkinsonian syndromes using PET data and a computer system based on support vector machines and Bayesian networks. <i>Frontiers in Computational Neuroscience</i> , 2015 , 9, 137	3.5	15
187	Independent Component Analysis-Based Classification of Alzheimer's Disease from Segmented MRI Data. <i>Lecture Notes in Computer Science</i> , 2015 , 78-87	0.9	4
186	Automated Diagnosis of Alzheimer's Disease by Integrating Genetic Biomarkers and Tissue Density Information. <i>Lecture Notes in Computer Science</i> , 2015 , 1-8	0.9	
185	A Volumetric Radial LBP Projection of MRI Brain Images for the Diagnosis of Alzheimer's Disease. <i>Lecture Notes in Computer Science</i> , 2015 , 19-28	0.9	2
184	Comparison between Different Intensity Normalization Methods in 123I-Ioflupane Imaging for the Automatic Detection of Parkinsonism. <i>PLoS ONE</i> , 2015 , 10, e0130274	3.7	14
183	Intensity Normalization of 123 I-ioflupane-SPECT Brain Images Using a Model-Based Multivariate Linear Regression Approach. <i>Lecture Notes in Computer Science</i> , 2015 , 68-77	0.9	
182	Study of the Histogram of the Hippocampus in MRI Using the Stable Distribution. <i>Lecture Notes in Computer Science</i> , 2015 , 216-221	0.9	
181	Automatic detection of Parkinsonism using significance measures and component analysis in DaTSCAN imaging. <i>Neurocomputing</i> , 2014 , 126, 58-70	5.4	42
180	Improving MR brain image segmentation using self-organising maps and entropy-gradient clustering. <i>Information Sciences</i> , 2014 , 262, 117-136	7.7	52
179	Parametrization of textural patterns in 123I-ioflupane imaging for the automatic detection of Parkinsonism. <i>Medical Physics</i> , 2014 , 41, 012502	4.4	38
178	Automatic ROI selection in structural brain MRI using SOM 3D projection. <i>PLoS ONE</i> , 2014 , 9, e93851	3.7	22
177	Real time QRS detection based on M-ary likelihood ratio test on the DFT coefficients. <i>PLoS ONE</i> , 2014 , 9, e110629	3.7	4
176	Regions of interest computed by SVM wrapped method for Alzheimer's disease examination from segmented MRI. <i>Frontiers in Aging Neuroscience</i> , 2014 , 6, 20	5.3	18
175	Identifying endophenotypes of autism: a multivariate approach. <i>Frontiers in Computational Neuroscience</i> , 2014 , 8, 60	3.5	23
174	Spatial component analysis of MRI data for Alzheimer's disease diagnosis: a Bayesian network approach. <i>Frontiers in Computational Neuroscience</i> , 2014 , 8, 156	3.5	9
173	Applications of Gaussian mixture models and mean squared error within DatSCAN SPECT imaging 2014 ,		1
172	BIDIMENSIONAL ENSEMBLE EMPIRICAL MODE DECOMPOSITION OF FUNCTIONAL BIOMEDICAL IMAGES. <i>Advances in Adaptive Data Analysis</i> , 2014 , 06, 1450004		5

171	Combining PET images and neuropsychological test data for automatic diagnosis of Alzheimer's disease. <i>PLoS ONE</i> , 2014 , 9, e88687	3.7	23
170	Why Using the Alpha-stable Distribution in Neuroimage? 2014 ,		2
169	Multimodal image data fusion for Alzheimer's Disease diagnosis by sparse representation. <i>Studies in Health Technology and Informatics</i> , 2014 , 207, 11-8	0.5	2
168	Linear intensity normalization of DaTSCAN images using Mean Square Error and a model-based clustering approach. <i>Studies in Health Technology and Informatics</i> , 2014 , 207, 251-60	0.5	4
167	Early diagnosis of Alzheimer's disease based on Partial Least Squares and Support Vector Machine. <i>Expert Systems With Applications</i> , 2013 , 40, 677-683	7.8	31
166	Improving MRI segmentation with probabilistic GHSOM and multiobjective optimization. <i>Neurocomputing</i> , 2013 , 114, 118-131	5.4	32
165	Application of Empirical Mode Decomposition (EMD) on DaTSCAN SPECT images to explore Parkinson Disease. <i>Expert Systems With Applications</i> , 2013 , 40, 2756-2766	7.8	47
164	Integrating discretization and association rule-based classification for Alzheimer's disease diagnosis. <i>Expert Systems With Applications</i> , 2013 , 40, 1571-1578	7.8	26
163	Automatic Differentiation between Alzheimer's Disease and Mild Cognitive Impairment Combining PET Data and Psychological Scores 2013 ,		1
162	Parameterization of the distribution of white and grey matter in MRI using the β -stable distribution. <i>Computers in Biology and Medicine</i> , 2013 , 43, 559-67	7	13
161	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	7.8	7
160	Functional activity maps based on significance measures and Independent Component Analysis. <i>Computer Methods and Programs in Biomedicine</i> , 2013 , 111, 255-68	6.9	19
159	Computer-aided diagnosis of Alzheimer's type dementia combining support vector machines and discriminant set of features. <i>Information Sciences</i> , 2013 , 237, 59-72	7.7	90
158	Two fully-unsupervised methods for MR brain image segmentation using SOM-based strategies. <i>Applied Soft Computing Journal</i> , 2013 , 13, 2668-2682	7.5	62
157	LVQ-SVM based CAD tool applied to structural MRI for the diagnosis of the Alzheimer's disease. <i>Pattern Recognition Letters</i> , 2013 , 34, 1725-1733	4.7	58
156	Linear intensity normalization of FP-CIT SPECT brain images using the β -stable distribution. <i>NeuroImage</i> , 2013 , 65, 449-55	7.9	32
155	Automatic determination of validity of input data used in ellipsoid fitting MARG calibration algorithms. <i>Sensors</i> , 2013 , 13, 11797-817	3.8	17
154	Texture Features Based Detection of Parkinson's Disease on DaTSCAN Images. <i>Lecture Notes in Computer Science</i> , 2013 , 266-277	0.9	8

153	Improving the convergence rate in affine registration of PET and SPECT brain images using histogram equalization. <i>Computational and Mathematical Methods in Medicine</i> , 2013 , 2013, 760903	2.8	3
152	Segmentation of brain MRI using SOM-FCM-based method and 3D statistical descriptors. <i>Computational and Mathematical Methods in Medicine</i> , 2013 , 2013, 638563	2.8	40
151	Automatic ROI Selection Using SOM Modelling in Structural Brain MRI. <i>Lecture Notes in Computer Science</i> , 2013 , 278-285	0.9	1
150	Early Computer Aided Diagnosis of Parkinson's Disease Based on Nearest Neighbor Strategy and striatum Activation Threshold. <i>Lecture Notes in Computer Science</i> , 2013 , 258-265	0.9	
149	Automatic Orientation of Functional Brain Images for Multiplatform Software. <i>Lecture Notes in Computer Science</i> , 2013 , 406-411	0.9	
148	Erratum to "Unsupervised Neural Techniques Applied to MR Brain Image Segmentation" <i>Advances in Artificial Neural Systems</i> , 2013 , 2013, 1-1		1
147	Computer Aided Diagnosis tool for Alzheimer's Disease based on Mann-Whitney-Wilcoxon U-Test. <i>Expert Systems With Applications</i> , 2012 , 39, 9676-9685	7.8	61
146	A comparative study of feature extraction methods for the diagnosis of Alzheimer's disease using the ADNI database. <i>Neurocomputing</i> , 2012 , 75, 64-71	5.4	48
145	NMF-SVM based CAD tool applied to functional brain images for the diagnosis of Alzheimer's disease. <i>IEEE Transactions on Medical Imaging</i> , 2012 , 31, 207-16	11.7	98
144	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, 191-8	7.4	6
143	Functional brain image classification using association rules defined over discriminant regions. <i>Pattern Recognition Letters</i> , 2012 , 33, 1666-1672	4.7	12
142	Association rule-based feature selection method for Alzheimer's disease diagnosis. <i>Expert Systems With Applications</i> , 2012 , 39, 11766-11774	7.8	39
141	Effective diagnosis of Alzheimer's disease by means of large margin-based methodology. <i>BMC Medical Informatics and Decision Making</i> , 2012 , 12, 79	3.6	4
140	On the empirical mode decomposition applied to the analysis of brain SPECT images. <i>Expert Systems With Applications</i> , 2012 , 39, 13451-13461	7.8	17
139	Detection of (in)activity periods in human body motion using inertial sensors: a comparative study. <i>Sensors</i> , 2012 , 12, 5791-814	3.8	30
138	A Decision Support System for the assisted diagnosis of brain tumors: a feasibility study for 18 F-FDG PET preclinical studies. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 6255-8	0.9	
137	Unsupervised Neural Techniques Applied to MR Brain Image Segmentation. <i>Advances in Artificial Neural Systems</i> , 2012 , 2012, 1-7		14
136	Advances in Unsupervised Learning Techniques Applied to Biosciences and Medicine. <i>Advances in Artificial Neural Systems</i> , 2012 , 2012, 1-2		

135	Automatic assistance to Parkinson's disease diagnosis in DaTSCAN SPECT imaging. <i>Medical Physics</i> , 2012 , 39, 5971-80	4.4	76
134	Brain connectivity analysis: a short survey. <i>Computational Intelligence and Neuroscience</i> , 2012 , 2012, 412512		61
133	A DSP embedded system. Application to digital communication systems 2012 ,		1
132	Empirical Mode Decomposition as a feature extraction method for Alzheimer's Disease Diagnosis 2012 ,		1
131	2012 ,		6
130	Intensity normalization of FP-CIT SPECT in patients with Parkinsonism using the β -stable distribution 2012 ,		1
129	Improved parkinsonism diagnosis using a partial least squares based approach. <i>Medical Physics</i> , 2012 , 39, 4395-403	4.4	48
128	MRI Brain Image Segmentation with Supervised SOM and Probability-Based Clustering Method. <i>Lecture Notes in Computer Science</i> , 2011 , 49-58	0.9	7
127	Two approaches to selecting set of voxels for the diagnosis of Alzheimer's disease using brain SPECT images 2011 , 21, 746-755		3
126	Wagyromag: Wireless sensor network for monitoring and processing human body movement in healthcare applications. <i>Journal of Systems Architecture</i> , 2011 , 57, 905-915	5.5	31
125	^{18}F -FDG PET imaging analysis for computer aided Alzheimer's diagnosis?. <i>Information Sciences</i> , 2011 , 181, 903-916	7.7	78
124	GMM based SPECT image classification for the diagnosis of Alzheimer's disease. <i>Applied Soft Computing Journal</i> , 2011 , 11, 2313-2325	7.5	69
123	Computer aided diagnosis of Alzheimer's disease using component based SVM. <i>Applied Soft Computing Journal</i> , 2011 , 11, 2376-2382	7.5	47
122	Principal component analysis-based techniques and supervised classification schemes for the early detection of Alzheimer's disease. <i>Neurocomputing</i> , 2011 , 74, 1260-1271	5.4	106
121	Efficient mining of association rules for the early diagnosis of Alzheimer's disease. <i>Physics in Medicine and Biology</i> , 2011 , 56, 6047-63	3.8	26
120	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	2	17
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