

Francisco J MartÃ- nez-Murcia

List of Publications by Year in descending order

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83
papers

1,751
citations

331670

21
h-index

302126

39
g-index

86
all docs

86
docs citations

86
times ranked

1623
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in multimodal data fusion in neuroimaging: Overview, challenges, and novel orientation. <i>Information Fusion</i> , 2020, 64, 149-187.	19.1	235
2	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.	6.3	127
3	Artificial intelligence within the interplay between natural and artificial computation: Advances in data science, trends and applications. <i>Neurocomputing</i> , 2020, 410, 237-270.	5.9	121
4	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.	7.6	86
5	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.	4.2	75
6	Convolutional Neural Networks for Neuroimaging in Parkinson's Disease: Is Preprocessing Needed?. <i>International Journal of Neural Systems</i> , 2018, 28, 1850035.	5.2	73
7	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.	2.5	69
8	Application of Empirical Mode Decomposition (EMD) on DaTSCAN SPECT images to explore Parkinson Disease. <i>Expert Systems With Applications</i> , 2013, 40, 2756-2766.	7.6	63
9	Automatic detection of Parkinsonism using significance measures and component analysis in DaTSCAN imaging. <i>Neurocomputing</i> , 2014, 126, 58-70.	5.9	49
10	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.	2.5	47
11	Deep residual transfer learning for automatic diagnosis and grading of diabetic retinopathy. <i>Neurocomputing</i> , 2021, 452, 424-434.	5.9	44
12	Parametrization of textural patterns in I231-Ioflupane imaging for the automatic detection of Parkinsonism. <i>Medical Physics</i> , 2013, 41, 012502.	3.0	43
13	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.	3.6	35
14	Multivariate Analysis of I8F-DMFP PET Data to Assist the Diagnosis of Parkinsonism. <i>Frontiers in Neuroinformatics</i> , 2017, 11, 23.	2.5	32
15	Building a FP-CIT SPECT Brain Template Using a Posterization Approach. <i>Neuroinformatics</i> , 2015, 13, 391-402.	2.8	31
16	Case-Based Statistical Learning: A Non-Parametric Implementation With a Conditional-Error Rate SVM. <i>IEEE Access</i> , 2017, 5, 11468-11478.	4.2	31
17	A Machine Learning Approach to Reveal the NeuroPhenotypes of Autisms. <i>International Journal of Neural Systems</i> , 2019, 29, 1850058.	5.2	31
18	Automatic ROI Selection in Structural Brain MRI Using SOM 3D Projection. <i>PLoS ONE</i> , 2014, 9, e93851.	2.5	28

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19	Dyslexia Diagnosis by EEG Temporal and Spectral Descriptors: An Anomaly Detection Approach. International Journal of Neural Systems, 2020, 30, 2050029.	5.2	28
20	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.	1.5	27
21	A 3D Convolutional Neural Network Approach for the Diagnosis of Parkinson's Disease. Lecture Notes in Computer Science, 2017, , 324-333.	1.3	25
22	A Spherical Brain Mapping of MR Images for the Detection of Alzheimer's Disease. Current Alzheimer Research, 2016, 13, 575-588.	1.4	25
23	A Structural Parametrization of the Brain Using Hidden Markov Models-Based Paths in Alzheimer's Disease. International Journal of Neural Systems, 2016, 26, 1650024.	5.2	24
24	Assisted Diagnosis of Parkinsonism Based on the Striatal Morphology. International Journal of Neural Systems, 2019, 29, 1950011.	5.2	24
25	Morphological Characterization of Functional Brain Imaging by Isosurface Analysis in Parkinson's Disease. International Journal of Neural Systems, 2020, 30, 2050044.	5.2	24
26	EEG Connectivity Analysis Using Denoising Autoencoders for the Detection of Dyslexia. International Journal of Neural Systems, 2020, 30, 2050037.	5.2	21
27	Functional activity maps based on significance measures and Independent Component Analysis. Computer Methods and Programs in Biomedicine, 2013, 111, 255-268.	4.7	19
28	Optimized One vs One Approach in Multiclass Classification for Early Alzheimer's Disease and Mild Cognitive Impairment Diagnosis. IEEE Access, 2020, 8, 96981-96993.	4.2	19
29	Statistical Agnostic Mapping: A framework in neuroimaging based on concentration inequalities. Information Fusion, 2021, 66, 198-212.	19.1	19
30	Autosomal dominantly inherited alzheimer disease: Analysis of genetic subgroups by machine learning. Information Fusion, 2020, 58, 153-167.	19.1	17
31	Discriminative Sparse Features for Alzheimer's Disease Diagnosis Using Multimodal Image Data. Current Alzheimer Research, 2017, 15, 67-79.	1.4	16
32	Expectation-Maximization algorithm for finite mixture of χ^2 -stable distributions. Neurocomputing, 2020, 413, 210-216.	5.9	16
33	Functional Brain Imaging Synthesis Based on Image Decomposition and Kernel Modeling: Application to Neurodegenerative Diseases. Frontiers in Neuroinformatics, 2017, 11, 65.	2.5	15
34	A semi-supervised learning approach for model selection based on class-hypothesis testing. Expert Systems With Applications, 2017, 90, 40-49.	7.6	14
35	Automated Diagnosis of Parkinsonian Syndromes by Deep Sparse Filtering-Based Features. Smart Innovation, Systems and Technologies, 2016, , 249-258.	0.6	14
36	Learning Longitudinal MRI Patterns by SICE and Deep Learning: Assessing the Alzheimer's Disease Progression. Communications in Computer and Information Science, 2017, , 413-424.	0.5	14

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37	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.	3.4	12
38	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.	0.6	12
39	Empirical Functional PCA for 3D Image Feature Extraction Through Fractal Sampling. <i>International Journal of Neural Systems</i> , 2019, 29, 1850040.	5.2	12
40	Complex network modeling of EEG band coupling in dyslexia: An exploratory analysis of auditory processing and diagnosis. <i>Knowledge-Based Systems</i> , 2022, 240, 108098.	7.1	12
41	Quantifying Differences Between Affine and Nonlinear Spatial Normalization of FP-CIT Spect Images. <i>International Journal of Neural Systems</i> , 2022, 32, 2250019.	5.2	12
42	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.	2.6	9
43	Periodogram Connectivity of EEG Signals for the Detection of Dyslexia. <i>Lecture Notes in Computer Science</i> , 2019, , 350-359.	1.3	9
44	An Anomaly Detection Approach for Dyslexia Diagnosis Using EEG Signals. <i>Lecture Notes in Computer Science</i> , 2019, , 369-378.	1.3	9
45	Granger causality-based information fusion applied to electrical measurements from power transformers. <i>Information Fusion</i> , 2020, 57, 59-70.	19.1	9
46	Texture Features Based Detection of Parkinson's Disease on DaTSCAN Images. <i>Lecture Notes in Computer Science</i> , 2013, , 266-277.	1.3	8
47	An Optimal Approach for Selecting Discriminant Regions for the Diagnosis of Alzheimer's Disease. <i>Current Alzheimer Research</i> , 2016, 13, 838-844.	1.4	8
48	Label aided deep ranking for the automatic diagnosis of Parkinsonian syndromes. <i>Neurocomputing</i> , 2019, 330, 162-171.	5.9	5
49	Detecting Phase-Synchrony Connectivity Anomalies in EEG Signals. Application to Dyslexia Diagnosis. <i>Sensors</i> , 2021, 21, 7061.	3.8	5
50	Computer-Aided Diagnosis in Neuroimaging. , 0, , .		4
51	Ensemble Tree Learning Techniques for Magnetic Resonance Image Analysis. <i>Smart Innovation, Systems and Technologies</i> , 2016, , 395-404.	0.6	4
52	Evaluating Alzheimer's Disease Diagnosis Using Texture Analysis. <i>Communications in Computer and Information Science</i> , 2017, , 470-481.	0.5	4
53	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.	1.3	3
54	Longitudinal correlation between neurofilament light chain and UMSARS in Multiple System Atrophy. <i>Clinical Neurology and Neurosurgery</i> , 2020, 195, 105924.	1.4	3

#	ARTICLE	IF	CITATIONS
55	Comparison Between Affine and Non-affine Transformations Applied to ^{123}I -FP-CIT SPECT Images Used for Parkinson's Disease Diagnosis. Lecture Notes in Computer Science, 2019, , 379-388.	1.3	3
56	Dyslexia Detection from EEG Signals Using SSA Component Correlation and Convolutional Neural Networks. Lecture Notes in Computer Science, 2020, , 655-664.	1.3	3
57	Automatic Separation of Parkinsonian Patients and Control Subjects Based on the Striatal Morphology. Lecture Notes in Computer Science, 2017, , 345-352.	1.3	3
58	Intensity normalization of FP-CIT SPECT in patients with Parkinsonism using the α -stable distribution. , 2012, , .		2
59	Magnetic resonance image classification using nonnegative matrix factorization and ensemble tree learning techniques. , 2016, , .		2
60	MRI brain segmentation using hidden Markov random fields with alpha-stable distributions. , 2016, , .		2
61	Case-based statistical learning applied to SPECT image classification. , 2017, , .		2
62	Assisting the Diagnosis of Neurodegenerative Disorders Using Principal Component Analysis and TensorFlow. Advances in Intelligent Systems and Computing, 2017, , 43-52.	0.6	2
63	Temporal Phase Synchrony Disruption in Dyslexia: Anomaly Patterns in Auditory Processing. Lecture Notes in Computer Science, 2022, , 13-22.	1.3	2
64	PETRA: A web-based system supporting computer aided diagnosis of alzheimer's disease. , 2016, , .		1
65	A Heavy Tailed Expectation Maximization Hidden Markov Random Field Model with Applications to Segmentation of MRI. Frontiers in Neuroinformatics, 2017, 11, 66.	2.5	1
66	^{123}I -FP-CIT SPECT brain imaging for Parkinson's diagnosis using contour lines. , 2018, , .		1
67	Analysis of ^{123}I -Ioflupane SPECT intensity iso-surfaces to assist the diagnosis of Parkinsonism. , 2018, , .		1
68	Classification Improvement for Parkinson's Disease Diagnosis Using the Gradient Magnitude in DaTSCAN SPECT Images. Advances in Intelligent Systems and Computing, 2019, , 100-109.	0.6	1
69	Support Vector Machine Failure in Imbalanced Datasets. Lecture Notes in Computer Science, 2019, , 412-419.	1.3	1
70	On a Heavy-Tailed Intensity Normalization of the Parkinson's Progression Markers Initiative Brain Database. Lecture Notes in Computer Science, 2017, , 298-304.	1.3	1
71	Retinal Blood Vessel Segmentation by Multi-channel Deep Convolutional Autoencoder. Advances in Intelligent Systems and Computing, 2019, , 37-46.	0.6	1
72	Simulating functional brain images in Alzheimer's disease. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
73	Statistical feature selection and classification models for Alzheimer's disease progression assessment. , 2016, , .		0
74	Case-Based Statistical Learning: A Non Parametric Implementation Applied to SPECT Images. Lecture Notes in Computer Science, 2017, , 305-313.	1.3	0
75	Analysis of ¹⁸ 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
76	Segmentation of Molecular Neuroimages Using Hidden Markov Random Fields in Order to Improve the Assisted Diagnosis of Neurodegenerative Diseases. , 2018, , .		0
77	Ensemble classification of heterogeneous biomarkers in the diagnosis of Parkinsonism. , 2018, , .		0
78	Using Early Acquisitions of Amyloid-PET as a Surrogate of FDG-PET: A Machine Learning Based Approach. , 2018, , .		0
79	Temporal EigenPAC for Dyslexia Diagnosis. Lecture Notes in Computer Science, 2021, , 45-56.	1.3	0
80	Modelling Brain Connectivity Networks by Graph Embedding for Dyslexia Diagnosis. Lecture Notes in Computer Science, 2021, , 97-106.	1.3	0
81	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.	1.3	0
82	Automatic Orientation of Functional Brain Images for Multiplatform Software. Lecture Notes in Computer Science, 2013, , 406-411.	1.3	0
83	A Neural Approach to Ordinal Regression for the Preventive Assessment of Developmental Dyslexia. Lecture Notes in Computer Science, 2020, , 620-630.	1.3	0