Hamid Soltanian-Zadeh

List of Publications by Year
in descending order

405 papers	7,769 citations	71061 41 h-index	85498 71 g-index
416 all docs	416 docs citations	416 times ranked	8585 citing authors

#	Article	IF	Citations
1	Correlation of VEGF and Angiopoietin Expression with Disruption of Blood–Brain Barrier and Angiogenesis after Focal Cerebral Ischemia. Journal of Cerebral Blood Flow and Metabolism, 2002, 22, 379-392.	2.4	396
2	Radon transform orientation estimation for rotation invariant texture analysis. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2005, 27, 1004-1008.	9.7	347
3	Automatic recognition of five types of white blood cells in peripheral blood. Computerized Medical Imaging and Graphics, 2011, 35, 333-343.	3.5	263
4	Automated segmentation and classification of multispectral magnetic resonance images of brain using artificial neural networks. IEEE Transactions on Medical Imaging, 1997, 16, 911-918.	5.4	258
5	Comparison of multiwavelet, wavelet, Haralick, and shape features for microcalcification classification in mammograms. Pattern Recognition, 2004, 37, 1973-1986.	5.1	170
6	Multiwavelet grading of pathological images of prostate. IEEE Transactions on Biomedical Engineering, 2003, 50, 697-704.	2.5	163
7	Image retrieval based on shape similarity by edge orientation autocorrelogram. Pattern Recognition, 2003, 36, 1725-1736.	5.1	142
8	Rotation-invariant multiresolution texture analysis using Radon and wavelet transforms. IEEE Transactions on Image Processing, 2005, 14, 783-795.	6.0	128
9	White matter abnormalities across different epilepsy syndromes in adults: an ENIGMA-Epilepsy study. Brain, 2020, 143, 2454-2473.	3.7	123
10	Resting State Functional Connectivity in Mild Traumatic Brain Injury at the Acute Stage: Independent Component and Seed-Based Analyses. Journal of Neurotrauma, 2015, 32, 1031-1045.	1.7	122
11	Optimized Deep Learning for EEG Big Data and Seizure Prediction BCI via Internet of Things. IEEE Transactions on Big Data, 2017, 3, 392-404.	4.4	122
12	Segmentation of multiple sclerosis lesions in MR images: a review. Neuroradiology, 2012, 54, 299-320.	1.1	115
13	Time Course of ADC_w Changes in Ischemic Stroke: Beyond the Human Eye!. Stroke, 1998, 29, 1778-1782.	1.0	101
14	Registration and warping of magnetic resonance images to histological sections. Medical Physics, 1999, 26, 1568-1578.	1.6	100
15	Network-based atrophy modeling in the common epilepsies: A worldwide ENIGMA study. Science Advances, 2020, 6, .	4.7	97
16	Pigment Melanin: Pattern for Iris Recognition. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 792-804.	2.4	94
17	A three-dimensional deformable model for segmentation of human prostate from ultrasound images. Medical Physics, 2001, 28, 2147-2153.	1.6	93
18	Multiparametric MRI Tissue Characterization in Clinical Stroke With Correlation to Clinical Outcome. Stroke, 2001, 32, 950-957.	1.0	92

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19	An image analysis approach for automatic malignancy determination of prostate pathological images. Cytometry Part B - Clinical Cytometry, 2007, 72B, 227-240.	0.7	85
20	Quantification of superparamagnetic iron oxide (SPIO)‑labeled cells using MRI. Journal of Magnetic Resonance Imaging, 2007, 26, 366-374.	1.9	85
21	Unsupervised segmentation of multiparameter MRI in experimental cerebral ischemia with comparison to T2, diffusion, and ADC MRI parameters and histopathological validation. Journal of Magnetic Resonance Imaging, 2000, 11, 425-437.	1.9	81
22	A Model for Multiparametric MRI Tissue Characterization in Experimental Cerebral Ischemia With Histological Validation in Rat. Stroke, 2001, 32, 943-949.	1.0	80
23	Improved prediction of outcome in Parkinson's disease using radiomics analysis of longitudinal DAT SPECT images. NeuroImage: Clinical, 2017, 16, 539-544.	1.4	76
24	A comparative analysis of several transformations for enhancement and segmentation of magnetic resonance image scene sequences. IEEE Transactions on Medical Imaging, 1992, 11, 302-318.	5.4	74
25	Integrated MEG/EEG and fMRI model based on neural masses. IEEE Transactions on Biomedical Engineering, 2006, 53, 1794-1801.	2.5	74
26	Model selection for DCE‑T1 studies in glioblastoma. Magnetic Resonance in Medicine, 2012, 68, 241-251.	1.9	74
27	Web-based interactive 2D/3D medical image processing and visualization software. Computer Methods and Programs in Biomedicine, 2010, 98, 172-182.	2.6	70
28	Fast opposite weight learning rules with application in breast cancer diagnosis. Computers in Biology and Medicine, 2013, 43, 32-41.	3.9	68
29	Hippocampal volumetry for lateralization of temporal lobe epilepsy: Automated versus manual methods. NeuroImage, 2011, 54, S218-S226.	2.1	66
30	Cloud-based deep learning of big EEG data for epileptic seizure prediction. , 2016, , .		65
31	A multidimensional nonlinear edge-preserving filter for magnetic resonance image restoration. IEEE Transactions on Image Processing, 1995, 4, 147-161.	6.0	62
32	Measurement of quantity of iron in magnetically labeled cells: comparison among different UV/VIS spectrometric methods. BioTechniques, 2007, 43, 627-636.	0.8	61
33	Neonatal brain resting-state functional connectivity imaging modalities. Photoacoustics, 2018, 10, 1-19.	4.4	56
34	Multimodal data analysis of epileptic EEG and rs-fMRI via deep learning and edge computing. Artificial Intelligence in Medicine, 2020, 104, 101813.	3.8	55
35	Degree of corticospinal tract damage correlates with motor function after stroke. Annals of Clinical and Translational Neurology, 2014, 1, 891-899.	1.7	54
36	FLAIR signal and texture analysis for lateralizing mesial temporal lobe epilepsy. NeuroImage, 2010, 49, 1559-1571.	2.1	52

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37	Optimal linear transformation for MRI feature extraction. IEEE Transactions on Medical Imaging, 1996, 15, 749-767.	5.4	50
38	Extended Kalman Filter frequency tracker for nonstationary harmonic signals. Measurement: Journal of the International Measurement Confederation, 2012, 45, 126-132.	2.5	50
39	Segmentation of the hippocampus from brain MRI using deformable contours. Computerized Medical Imaging and Graphics, 1998, 22, 203-216.	3.5	49
40	The <scp>ENIGMAâ€Epilepsy</scp> working group: Mapping disease from large data sets. Human Brain Mapping, 2022, 43, 113-128.	1.9	47
41	Predicting Final Extent of Ischemic Infarction Using Artificial Neural Network Analysis of Multi-Parametric MRI in Patients with Stroke. PLoS ONE, 2011, 6, e22626.	1.1	46
42	Optimal transformation for correcting partial volume averaging effects in magnetic resonance imaging. IEEE Transactions on Nuclear Science, 1993, 40, 1204-1212.	1.2	44
43	Multiparametric MRI ISODATA Ischemic Lesion Analysis. Stroke, 2002, 33, 2839-2844.	1.0	44
44	Structured and Sparse Canonical Correlation Analysis as a Brain-Wide Multi-Modal Data Fusion Approach. IEEE Transactions on Medical Imaging, 2017, 36, 1438-1448.	5.4	43
45	Multi-area neural mass modeling of EEG and MEG signals. NeuroImage, 2010, 52, 793-811.	2.1	42
46	Deep Learning with Edge Computing for Localization of Epileptogenicity Using Multimodal rs-fMRI and EEG Big Data. , 2017, , .		42
47	Simple and reproducible linear measurements to determine ventricular enlargement in adults. , 2015, 6, 59.		42
48	A time local subset feature selection for prediction of sudden cardiac death from ECG signal. Medical and Biological Engineering and Computing, 2018, 56, 1253-1270.	1.6	41
49	Cerebral tumor volume calculations using planimetric and eigenimage analysis. Medical Physics, 1996, 23, 2035-2042.	1.6	40
50	Dataset of Magnetic Resonance Images of Nonepileptic Subjects and Temporal Lobe Epilepsy Patients for Validation of Hippocampal Segmentation Techniques. Neuroinformatics, 2011, 9, 335-346.	1.5	40
51	Random ensemble learning for EEG classification. Artificial Intelligence in Medicine, 2018, 84, 146-158.	3.8	39
52	A fast and accurate algorithm for volume determination in MRI. Medical Physics, 1992, 19, 599-605.	1.6	37
53	A signal subspace approach for modeling the hemodynamic response function in fMRI. Magnetic Resonance Imaging, 2003, 21, 835-843.	1.0	37
54	Automatic Segmentation of Thalamus From Brain MRI Integrating Fuzzy Clustering and Dynamic Contours. IEEE Transactions on Biomedical Engineering, 2004, 51, 800-811.	2.5	36

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55	MRI tissue characterization of experimental cerebral ischemia in rat. Journal of Magnetic Resonance Imaging, 2003, 17, 398-409.	1.9	35
56	Retinal vessel segmentation using a multi-scale medialness function. Computers in Biology and Medicine, 2012, 42, 50-60.	3.9	35
57	A 3D deformable surface model for segmentation of objects from volumetric data in medical images. Computers in Biology and Medicine, 1998, 28, 239-253.	3.9	34
58	Selection–fusion approach for classification of datasets with missing values. Pattern Recognition, 2010, 43, 2340-2350.	5.1	34
59	Bias and stability of single variable classifiers for feature ranking and selection. Expert Systems With Applications, 2014, 41, 6945-6958.	4.4	34
60	Comparative performance evaluation of automated segmentation methods of hippocampus from magnetic resonance images of temporal lobe epilepsy patients. Medical Physics, 2016, 43, 538-553.	1.6	33
61	Multi-scale convolutional neural network for automated AMD classification using retinal OCT images. Computers in Biology and Medicine, 2022, 144, 105368.	3.9	33
62	Lateralization of temporal lobe epilepsy using a novel uncertainty analysis of MR diffusion in hippocampus, cingulum, and fornix, and hippocampal volume and FLAIR intensity. Journal of the Neurological Sciences, 2014, 342, 152-161.	0.3	32
63	A multiresolution approach for contour extraction from brain images. Medical Physics, 1997, 24, 1844-1853.	1.6	31
64	AC133+ progenitor cells as gene delivery vehicle and cellular probe in subcutaneous tumor models: a preliminary study. BMC Biotechnology, 2009, 9, 28.	1.7	31
65	A New Approach to White Blood Cell Nucleus Segmentation Based on Gram-Schmidt Orthogonalization. , 2009, , .		31
66	Spatiotemporal features of DCE-MRI for breast cancer diagnosis. Computer Methods and Programs in Biomedicine, 2018, 155, 153-164.	2.6	31
67	Nonlinear effective connectivity measure based on adaptive Neuro Fuzzy Inference System and Granger Causality. NeuroImage, 2018, 181, 382-394.	2.1	31
68	Multiparametric ISODATA analysis of embolic stroke and rt-PA intervention in rat. Journal of the Neurological Sciences, 2004, 223, 135-143.	0.3	29
69	Neural Network and Fuzzy Clustering Approach for Automatic Diagnosis of Coronary Artery Disease in Nuclear Medicine. IEEE Transactions on Nuclear Science, 2004, 51, 184-192.	1.2	29
70	Tract based spatial statistical analysis and voxel based morphometry of diffusion indices in temporal lobe epilepsy. Computers in Biology and Medicine, 2011, 41, 1082-1091.	3.9	29
71	Artificial Neural Network–Based Prediction of Outcome in Parkinson's Disease Patients Using DaTscan SPECT Imaging Features. Molecular Imaging and Biology, 2019, 21, 1165-1173.	1.3	29
72	Error propagation in eigenimage filtering. IEEE Transactions on Medical Imaging, 1990, 9, 405-420.	5.4	28

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73	Enhancing reproducibility of fMRI statistical maps using generalized canonical correlation analysis in NPAIRS framework. NeuroImage, 2012, 60, 1970-1981.	2.1	28
74	Quantitative determination of concordance in localizing epileptic focus by component-based EEG-fMRI. Computer Methods and Programs in Biomedicine, 2019, 177, 231-241.	2.6	28
75	Novel and general approach to linear filter design for contrast-to-noise ratio enhancement of magnetic resonance images with multiple interfering features in the scene. Journal of Electronic Imaging, 1992, 1, 171.	0.5	27
76	Microvascular structure after embolic focal cerebral ischemia in the rat. Brain Research, 2003, 972, 31-37.	1.1	26
77	Endothelial Progenitor Cells (EPCs) as Gene Carrier System for Rat Model of Human Glioma. PLoS ONE, 2012, 7, e30310.	1.1	26
78	Application of full set of two point correlation functions from a pair of 2D cut sections for 3D porous media reconstruction. Journal of Petroleum Science and Engineering, 2017, 149, 789-800.	2.1	26
79	Graph theoretical metrics and machine learning for diagnosis of Parkinson's disease using rs-fMRI. , 2017, , .		26
80	Automatic landmark extraction from image data using modified growing neural gas network. IEEE Transactions on Information Technology in Biomedicine, 2003, 7, 77-85.	3.6	25
81	Effects of Ferumoxides â€" Protamine Sulfate Labeling on Immunomodulatory Characteristics of Macrophage-like THP-1 Cells. PLoS ONE, 2008, 3, e2499.	1.1	25
82	A Hybrid Method Based on Fuzzy Clustering and Local Region-Based Level Set for Segmentation of Inhomogeneous Medical Images. Journal of Medical Systems, 2014, 38, 68.	2.2	25
83	Localizing confined epileptic foci in patients with an unclear focus or presumed multifocality using a component-based EEG-fMRI method. Cognitive Neurodynamics, 2021, 15, 207-222.	2.3	25
84	Robust identification of Parkinson's disease subtypes using radiomics and hybrid machine learning. Computers in Biology and Medicine, 2021, 129, 104142.	3.9	25
85	Artificial intelligence for classification of temporal lobe epilepsy with ROI-level MRI data: A worldwide ENIGMA-Epilepsy study. NeuroImage: Clinical, 2021, 31, 102765.	1.4	25
86	Optimization of MRI protocols and pulse sequence parameters for eigenimage filtering. IEEE Transactions on Medical Imaging, 1994, 13, 161-175.	5.4	24
87	Brain tumor segmentation and characterization by pattern analysis of multispectral NMR images. , 1998, 11, 201-208.		24
88	Integrated MEG and fMRI Model: Synthesis and Analysis. Brain Topography, 2005, 18, 101-113.	0.8	24
89	MEG Coherence and DTI Connectivity in mTLE. Brain Topography, 2016, 29, 598-622.	0.8	24
90	DTI-based response-driven modeling of mTLE laterality. NeuroImage: Clinical, 2016, 11, 694-706.	1.4	24

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91	Identification of cerebral ischemic lesions in rat using eigenimage filtered magnetic resonance imaging. Brain Research, 1999, 837, 83-94.	1.1	23
92	Multiresolution fMRI activation detection using translation invariant wavelet transform and statistical analysis based on resampling. IEEE Transactions on Medical Imaging, 2003, 22, 302-314.	5.4	23
93	Content-based image database system for epilepsy. Computer Methods and Programs in Biomedicine, 2005, 79, 209-226.	2.6	23
94	Predicting final infarct size using acute and subacute multiparametric MRI measurements in patients with ischemic stroke. Journal of Magnetic Resonance Imaging, 2005, 21, 495-502.	1.9	23
95	Gait Recognition Using Wavelet Packet Silhouette Representation and Transductive Support Vector Machines. , 2009, , .		22
96	Directed Differential Connectivity Graph of Interictal Epileptiform Discharges. IEEE Transactions on Biomedical Engineering, 2011, 58, 884-893.	2.5	22
97	A mutual information–based metric for evaluation of fMRI data–processing approaches. Human Brain Mapping, 2011, 32, 699-715.	1.9	22
98	Segmentation of corpus callosum using diffusion tensor imaging: validation in patients with glioblastoma. BMC Medical Imaging, 2012, 12, 10.	1.4	22
99	Local feature fitting active contour for segmenting vessels in angiograms. IET Computer Vision, 2014, 8, 161-170.	1.3	22
100	Snake modeling and distance transform approach to vascular centerline extraction and quantification. Computerized Medical Imaging and Graphics, 2003, 27, 503-512.	3.5	21
101	Automatic Segmentation of Brain Structures Using Geometric Moment Invariants and Artificial Neural Networks. Lecture Notes in Computer Science, 2009, 21, 326-337.	1.0	21
102	Three-dimensional Volumetric Measurements and Analysis of the Maxillary Sinus. American Journal of Rhinology and Allergy, 2011, 25, 152-156.	1.0	21
103	Shape Analysis of Stroma for Iris Recognition. Lecture Notes in Computer Science, 2007, , 790-799.	1.0	21
104	Atlas-based fiber bundle segmentation using principal diffusion directions and spherical harmonic coefficients. NeuroImage, 2011, 54, S146-S164.	2.1	20
105	Polyp detection in Wireless Capsule Endoscopy images by using region-based active contour model. , 2012, , .		20
106	Component-related BOLD response to localize epileptic focus using simultaneous EEG-fMRI recordings at 3T. Journal of Neuroscience Methods, 2019, 322, 34-49.	1.3	20
107	Longitudinal clustering analysis and prediction of Parkinson's disease progression using radiomics and hybrid machine learning. Quantitative Imaging in Medicine and Surgery, 2022, 12, 906-919.	1.1	20
108	MRI-guided, open trial of abciximab for ischemic stroke within a 3- to 24-hour window. Neurology, 2005, 65, 612-615.	1.5	19

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109	Magnetically-labeled sensitized splenocytes to identify glioma by MRI: A preliminary study. Magnetic Resonance in Medicine, 2007, 58, 519-526.	1.9	19
110	Prediction of Glioblastoma Multiform Response to Bevacizumab Treatment Using Multi-Parametric MRI. PLoS ONE, 2012, 7, e29945.	1.1	19
111	Lateralization of temporal lobe epilepsy by multimodal multinomial hippocampal response-driven models. Journal of the Neurological Sciences, 2014, 347, 107-118.	0.3	19
112	Localization of Epileptic Foci Based on Simultaneous EEG–fMRI Data. Frontiers in Neurology, 2021, 12, 645594.	1.1	19
113	Activation detection in fMRI using a maximum energy ratio statistic obtained by adaptive spatial filtering. IEEE Transactions on Medical Imaging, 2003, 22, 795-805.	5.4	18
114	Integrated MEG/fMRI Model Validated Using Real Auditory Data. Brain Topography, 2008, 21, 61-74.	0.8	18
115	Quantitative multi-compartmental SPECT image analysis for lateralization of temporal lobe epilepsy. Epilepsy Research, 2011, 95, 35-50.	0.8	18
116	A Framework for Intracranial Saccular Aneurysm Detection and Quantification using Morphological Analysis of Cerebral Angiograms. IEEE Access, 2018, 6, 7970-7986.	2.6	18
117	Topographic divergence of atypical cortical asymmetry and atrophy patterns in temporal lobe epilepsy. Brain, 2022, 145, 1285-1298.	3.7	18
118	Differentiation of Glioma and Radiation Injury in Rats Using In Vitro Produce Magnetically Labeled Cytotoxic T-Cells and MRI. PLoS ONE, 2010, 5, e9365.	1.1	17
119	Robust vehicle tracking algorithm for nighttime videos captured by fixed cameras in highly reflective environments. IET Computer Vision, 2014, 8, 535-544.	1.3	17
120	Multiparametric iterative self-organizing MR imaging data analysis technique for assessment of tissue viability in acute cerebral ischemia. American Journal of Neuroradiology, 2004, 25, 1499-508.	1.2	17
121	Deep Learning for Autism Diagnosis and Facial Analysis in Children. Frontiers in Computational Neuroscience, 2021, 15, 789998.	1.2	17
122	<title>Semisupervised segmentation of MRI stroke studies</title>. , 1997, , .		16
123	Feature space analysis of MRI. Magnetic Resonance in Medicine, 1998, 40, 443-453.	1.9	16
124	Boundary-based warping of brain MR images. Journal of Magnetic Resonance Imaging, 2000, 12, 417-429.	1.9	16
125	Texture analysis of hippocampus for epilepsy. , 2003, 5031, 279.		16
126	Instantaneous fundamental frequency estimation of non-stationary periodic signals using non-linear recursive filters. IET Signal Processing, 2015, 9, 143-153.	0.9	16

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127	Global Data-Driven Analysis of Brain Connectivity During Emotion Regulation by Electroencephalography Neurofeedback. Brain Connectivity, 2020, 10, 302-315.	0.8	16
128	<title>Fast skeletonization algorithm for 3D elongated objects</title>. , 2001, 4322, 323.		15
129	A discrete curvature-based deformable surface model with application to segmentation of volumetric images. IEEE Transactions on Information Technology in Biomedicine, 2002, 6, 285-295.	3.6	15
130	Efficient center-line extraction for quantification of vessels in confocal microscopy images. Medical Physics, 2003, 30, 204-211.	1.6	15
131	Controlling the false positive rate in fuzzy clustering using randomization: application to fMRI activation detection. Magnetic Resonance Imaging, 2004, 22, 631-638.	1.0	15
132	A Hierarchical Clustering Based on Mutual Information Maximization. Proceedings International Conference on Image Processing, 2007, , .	0.0	15
133	Detection and Severity Scoring of Chronic Obstructive Pulmonary Disease Using Volumetric Analysis of Lung CT Images. Iranian Journal of Radiology, 2012, 9, 22-7.	0.1	15
134	K-edge ratio method for identification of multiple nanoparticulate contrast agents by spectral CT imaging. British Journal of Radiology, 2013, 86, 20130308.	1.0	15
135	Robust Estimation and Tracking of Pitch Period Using an Efficient Bayesian Filter. IEEE/ACM Transactions on Audio Speech and Language Processing, 2016, 24, 1219-1229.	4.0	15
136	Automatic Detection of Coronavirus (COVID-19) from Chest CT Images using VGG16-Based Deep-Learning. , 2020, , .		15
137	Multiparametric Iterative Self-Organizing Data Analysis of Ischemic Lesions Using Pre- or Post-Gd T1 MRI. Cerebrovascular Diseases, 2007, 23, 91-102.	0.8	14
138	Support Vector Machine with nonlinear-kernel optimization for lateralization of epileptogenic hippocampus in MR images. , 2014, 2014, 1047-50.		14
139	Fusing Iris, Palmprint and Fingerprint in a Multi-biometric Recognition System. , 2016, , .		14
140	Epilepsy Presurgical Evaluation of Patients with Complex Source Localization by a Novel Component-Based EEG-fMRI Approach. Iranian Journal of Radiology, 2019, 16, .	0.1	14
141	Model-Independent Method for fMRI Analysis. IEEE Transactions on Medical Imaging, 2004, 23, 285-296.	5.4	13
142	3-D quantification and visualization of vascular structures from confocal microscopic images using skeletonization and voxel-coding. Computers in Biology and Medicine, 2005, 35, 791-813.	3.9	13
143	Single channel speech separation in modulation frequency domain based on a novel pitch range estimation method. Eurasip Journal on Advances in Signal Processing, 2012, 2012, .	1.0	13
144	Statistical validation of automatic methods for hippocampus segmentation in MR images of epileptic patients. , 2014, 2014, 4707-10.		13

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145	Data mining MR image features of select structures for lateralization of mesial temporal lobe epilepsy. PLoS ONE, 2018, 13, e0199137.	1.1	13
146	Improved particle swarm optimization and applications to Hidden Markov Model and Ackley function. , 2011, , .		12
147	Medical image registration using sparse coding of image patches. Computers in Biology and Medicine, 2016, 73, 56-70.	3.9	12
148	Localizing Epileptic Foci Using Simultaneous EEG-fMRI Recording: Template Component Cross-Correlation. Frontiers in Neurology, 2021, 12, 695997.	1.1	12
149	<title>Shape-based and texture-based feature extraction for classification of microcalcifications in mammograms</title>. , 2001, , .		11
150	Comparison of five directed graph measures for identification of leading interictal epileptic regions. Physiological Measurement, 2010, 31, 1529-1546.	1.2	11
151	Overlapping brain Community detection using Bayesian tensor decomposition. Journal of Neuroscience Methods, 2019, 318, 47-55.	1.3	11
152	White matter microstructural differences between right and left mesial temporal lobe epilepsy. Acta Neurologica Belgica, 2020, 120, 1323-1331.	0.5	11
153	Linking Brain Biology to Intellectual Endowment: A Review on the Associations of Human Intelligence With Neuroimaging Data. Basic and Clinical Neuroscience, 2021, 12, 1-28.	0.3	11
154	Effect of parental depressive symptoms on offspring's brain structure and function: A systematic review of neuroimaging studies. Neuroscience and Biobehavioral Reviews, 2021, 131, 451-465.	2.9	11
155	The Corpus Callosum Wallerian Degeneration in the Unilateral Brain Tumors: Evaluation with Diffusion Tensor Imaging (DTI). Journal of Clinical and Diagnostic Research JCDR, 2013, 7, 320-5.	0.8	11
156	Event‐based modeling in temporal lobe epilepsy demonstrates progressive atrophy from cross‐sectional data. Epilepsia, 2022, 63, 2081-2095.	2.6	11
157	Knowledge-based localization of hippocampus in human brain MRI. Computers in Biology and Medicine, 2007, 37, 1342-1360.	3.9	10
158	Multi-scale approach for retinal vessel segmentation using medialness function. , 2010, , .		10
159	Information Theoretic Hierarchical Clustering. Entropy, 2011, 13, 450-465.	1.1	10
160	Automatic organs' detection in WCE. , 2012, , .		10
161	Effects of improved Adaptive Gamma Correction Method on Wireless Capsule Endoscopy images: Illumination compensation and edge detection. , 2012, , .		10
162	Map-ISODATA demarcates regional response to combination rt-PA and 7E3 F(ab²)2 treatment of embolic stroke in the rat. Journal of Magnetic Resonance Imaging, 2005, 21, 726-734.	1.9	9

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163	Feature Extraction Using Gabor-Filter and Recursive Fisher Linear Discriminant with Application in Fingerprint Identification. , 2009, , .		9
164	Clustering method for estimating principal diffusion directions. NeuroImage, 2011, 57, 825-838.	2.1	9
165	Evaluation of fiber bundles across subjects through brain mapping and registration of diffusion tensor data. NeuroImage, 2011, 54, S165-S175.	2.1	9
166	Sport Video Classification Using an Ensemble Classifier. , 2011, , .		9
167	Influence of brain-derived neurotrophic factor and apolipoprotein E genetic variants on hemispheric and lateral ventricular volume of young healthy adults. Acta Neuropsychiatrica, 2011, 23, 132-138.	1.0	9
168	Automatic segmentation of brain tumors in magnetic resonance images. , 2012, , .		9
169	Effect of 2D Image Resolution on 3D Stochastic Reconstruction and Developing Petrophysical Trend. Transport in Porous Media, 2018, 125, 41-58.	1.2	9
170	Enhancing performance of subject-specific models via subject-independent information for SSVEP-based BCIs. PLoS ONE, 2020, 15, e0226048.	1.1	9
171	Noisy Iris Verification: A Modified Version of Local Intensity Variation Method. Lecture Notes in Computer Science, 2009, , 1150-1159.	1.0	9
172	Feature space analysis: Effects of MRI protocols. Medical Physics, 2001, 28, 2344-2351.	1.6	8
173	Level set fiber bundle segmentation using spherical harmonic coefficients. Computerized Medical Imaging and Graphics, 2010, 34, 192-202.	3.5	8
174	Ball Detection with the Aim of Corner Event Detection in Soccer Video. , 2011, , .		8
175	Semi-automatic epilepsy spike detection from EEG signal using Genetic Algorithm and Wavelet transform. , 2011, , .		8
176	Diffusion kurtosis imaging discriminates patients with white matter lesions from healthy subjects. , 2011, 2011, 2796-9.		8
177	Automatic informative tissue's discriminators in WCE. , 2012, , .		8
178	An Analytical Model for Estimating Water Exchange Rate in White Matter Using Diffusion MRI. PLoS ONE, 2014, 9, e95921.	1.1	8
179	White matter correlates of disease duration in patients with temporal lobe epilepsy: updated review of literature. Neurological Sciences, 2019, 40, 1209-1216.	0.9	8
180	A Combination of Particle Swarm Optimization and Minkowski Weighted K-Means Clustering: Application in Lateralization of Temporal Lobe Epilepsy. Brain Topography, 2020, 33, 519-532.	0.8	8

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181	Mathematical basis of eigenimage filtering. Magnetic Resonance in Medicine, 1994, 31, 465-466.	1.9	7
182	<title>Microcalcification classification in mammograms using multiwavelet features</title>. , 1999, 3813, 832.		7
183	Three-dimensional analysis of complex branching vessels in confocal microscopy images. Computerized Medical Imaging and Graphics, 2005, 29, 487-498.	3.5	7
184	Characterization of cerebral tissue by MRI map ISODATA in embolic stroke in rat. Brain Research, 2006, 1084, 202-209.	1.1	7
185	Effect of classifiers in consensus feature ranking for biomedical datasets. , 2010, , .		7
186	Single channel speech separation with a frame-based pitch range estimation method in modulation frequency. , 2010, , .		7
187	Mesial temporal lobe epilepsy lateralization using SPHARM-based features of hippocampus and SVM. Proceedings of SPIE, 2012, , .	0.8	7
188	Reference-Based Source Separation Method For Identification of Brain Regions Involved in a Reference State From Intracerebral EEG. IEEE Transactions on Biomedical Engineering, 2013, 60, 1983-1992.	2.5	7
189	Representation of higher-order statistical structures in natural scenes via spatial phase distributions. Vision Research, 2016, 120, 61-73.	0.7	7
190	Classification of fNIRS based brain hemodynamic response to mental arithmetic tasks. , 2017, , .		7
191	Improved dynamic connection detection power in estimated dynamic functional connectivity considering multivariate dependencies between brain regions. Human Brain Mapping, 2020, 41, 4264-4287.	1.9	7
192	Segmentation of COVID-19 Infections on CT: Comparison of Four UNet-Based Networks. , 2020, , .		7
193	Image retrieval based on index compressed vector quantization. Pattern Recognition, 2003, 36, 2635-2647.	5.1	6
194	Flaw detection improvement of digitised radiographs by morphological transformations. Insight: Non-Destructive Testing and Condition Monitoring, 2005, 47, 625-630.	0.3	6
195	Multisubject activation detection in fMRI by testing correlation of data with a signal subspace. Magnetic Resonance Imaging, 2006, 24, 775-784.	1.0	6
196	Nonparametric trend estimation in the presence of fractal noise: Application to fMRI time-series analysis. Journal of Neuroscience Methods, 2008, 171, 340-348.	1.3	6
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