Dinggang Shen

List of Publications by Year
in descending order

1,187	59,991	687 118	2314 193
papers	citations	h-index	g-index

1240	1240	1240	46459
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Deep Learning in Medical Image Analysis. Annual Review of Biomedical Engineering, 2017, 19, 221-248.	12.5	3,177
2	Multimodal classification of Alzheimer's disease and mild cognitive impairment. NeuroImage, 2011, 55, 856-867.	4.4	1,123
3	Review of Artificial Intelligence Techniques in Imaging Data Acquisition, Segmentation, and Diagnosis for COVID-19. IEEE Reviews in Biomedical Engineering, 2021, 14, 4-15.	18.5	971
4	HAMMER: hierarchical attribute matching mechanism for elastic registration. IEEE Transactions on Medical Imaging, 2002, 21, 1421-1439.	9.2	963
5	Benchmarking of participant-level confound regression strategies for the control of motion artifact in studies of functional connectivity. NeuroImage, 2017, 154, 174-187.	4.4	898
6	Multi-modal multi-task learning for joint prediction of multiple regression and classification variables in Alzheimer's disease. NeuroImage, 2012, 59, 895-907.	4.4	599
7	Computer-Aided Diagnosis with Deep Learning Architecture: Applications to Breast Lesions in US Images and Pulmonary Nodules in CT Scans. Scientific Reports, 2016, 6, 24454.	3.5	515
8	Evidence on the emergence of the brain's default network from 2-week-old to 2-year-old healthy pediatric subjects. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 6790-6795.	7.6	504
9	Longitudinal pattern of regional brain volume change differentiates normal aging from MCI. Neurology, 2009, 72, 1906-1913.	1.1	458
10	Latent feature representation with stacked auto-encoder for AD/MCI diagnosis. Brain Structure and Function, 2015, 220, 841-859.	2.4	449
11	Wireless Recording in the Peripheral Nervous System with Ultrasonic Neural Dust. Neuron, 2016, 91, 529-539.	8.1	438
12	Medical Image Synthesis with Deep Convolutional Adversarial Networks. IEEE Transactions on Biomedical Engineering, 2018, 65, 2720-2730.	4.4	428
13	Methodological considerations on tract-based spatial statistics (TBSS). NeuroImage, 2014, 100, 358-369.	4.4	405
14	Longitudinal Development of Cortical and Subcortical Gray Matter from Birth to 2 Years. Cerebral Cortex, 2012, 22, 2478-2485.	3.2	398
15	The report of Task Group 100 of the AAPM: Application of risk analysis methods to radiation therapy quality management. Medical Physics, 2016, 43, 4209-4262.	3.1	383
16	Medical Image Synthesis with Context-Aware Generative Adversarial Networks. Lecture Notes in Computer Science, 2017, 10435, 417-425.	0.2	351
17	Hierarchical Fully Convolutional Network for Joint Atrophy Localization and Alzheimer's Disease Diagnosis Using Structural MRI. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 880-893.	15.3	350
18	Detection of prodromal Alzheimer's disease via pattern classification of magnetic resonance imaging. Neurobiology of Aging, 2008, 29, 514-523.	3.2	349

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19	Identification of MCI individuals using structural and functional connectivity networks. NeuroImage, 2012, 59, 2045-2056.	4.4	340
20	BIANCA (Brain Intensity AbNormality Classification Algorithm): A new tool for automated segmentation of white matter hyperintensities. NeuroImage, 2016, 141, 191-205.	4.4	339
21	Opioid Hedonic Hotspot in Nucleus Accumbens Shell: Mu, Delta, and Kappa Maps for Enhancement of Sweetness â€œLikingâ€•and â€œWantingâ€• Journal of Neuroscience, 2014, 34, 4239-4250.	3.8	330
22	3D conditional generative adversarial networks for high-quality PET image estimation at low dose. NeuroImage, 2018, 174, 550-562.	4.4	326
23	Landmark-based deep multi-instance learning for brain disease diagnosis. Medical Image Analysis, 2018, 43, 157-168.	11.8	326
24	COMPARE: Classification of Morphological Patterns Using Adaptive Regional Elements. IEEE Transactions on Medical Imaging, 2007, 26, 93-105.	9.2	322
25	Morphological classification of brains via high-dimensional shape transformations and machine learning methods. NeuroImage, 2004, 21, 46-57.	4.4	310
26	Dynamic Development of Regional Cortical Thickness and Surface Area in Early Childhood. Cerebral Cortex, 2015, 25, 2204-2212.	3.2	308
27	Dual-Sampling Attention Network for Diagnosis of COVID-19 From Community Acquired Pneumonia. IEEE Transactions on Medical Imaging, 2020, 39, 2595-2605.	9.2	303
28	A Multi-Organ Nucleus Segmentation Challenge. IEEE Transactions on Medical Imaging, 2020, 39, 1380-1391.	9.2	296
29	A Hybrid Feature Extraction Method With Regularized Extreme Learning Machine for Brain Tumor Classification. IEEE Access, 2019, 7, 36266-36273.	4.4	291
30	Ensemble sparse classification of Alzheimer's disease. NeuroImage, 2012, 60, 1106-1116.	4.4	286
31	Deep Learning-Based Feature Representation for AD/MCI Classification. Lecture Notes in Computer Science, 2013, 16, 583-590.	0.2	283
32	Deep Learning Based Imaging Data Completion for Improved Brain Disease Diagnosis. Lecture Notes in Computer Science, 2014, 17, 305-312.	0.2	269
33	Large-scale screening to distinguish between COVID-19 and community-acquired pneumonia using infection size-aware classification. Physics in Medicine and Biology, 2021, 66, 065031.	3.1	265
34	Spatial aggregation of holistically-nested convolutional neural networks for automated pancreas localization and segmentation. Medical Image Analysis, 2018, 45, 94-107.	11.8	263
35	The UNC/UMN Baby Connectome Project (BCP): An overview of the study design and protocol development. NeuroImage, 2019, 185, 891-905.	4.4	259
36	Neuroimaging cognitive reappraisal in clinical populations to define neural targets for enhancing emotion regulation. A systematic review. NeuroImage, 2017, 151, 105-116.	4.4	257

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37	State-space model with deep learning for functional dynamics estimation in resting-state fMRI. NeuroImage, 2016, 129, 292-307.	4.4	249
38	Whole-Brain Morphometric Study of Schizophrenia Revealing a Spatially Complex Set of Focal Abnormalities. Archives of General Psychiatry, 2005, 62, 1218.	12.9	243
39	Deep ensemble learning of sparse regression models for brain disease diagnosis. Medical Image Analysis, 2017, 37, 101-113.	11.8	242
40	A deep learning system for detecting diabetic retinopathy across the disease spectrum. Nature Communications, 2021, 12, 3242.	13.2	237
41	A Robust Deep Model for Improved Classification of AD/MCI Patients. IEEE Journal of Biomedical and Health Informatics, 2015, 19, 1610-1616.	6.9	233
42	Temporal and Spatial Evolution of Brain Network Topology during the First Two Years of Life. PLoS ONE, 2011, 6, e25278.	2.4	232
43	LRTV: MR Image Super-Resolution With Low-Rank and Total Variation Regularizations. IEEE Transactions on Medical Imaging, 2015, 34, 2459-2466.	9.2	224
44	Prediction of Alzheimer's disease and mild cognitive impairment using cortical morphological patterns. Human Brain Mapping, 2013, 34, 3411-3425.	3.7	223
45	Deep auto-context convolutional neural networks for standard-dose PET image estimation from low-dose PET/MRI. Neurocomputing, 2017, 267, 406-416.	6.2	223
46	Fibroblast Growth Factor 21 Limits Lipotoxicity by Promoting Hepatic Fatty Acid Activation in Mice on Methionine and Choline-Deficient Diets. Gastroenterology, 2014, 147, 1073-1083.e6.	1.4	222
47	Applications of multivariate modeling to neuroimaging group analysis: A comprehensive alternative to univariate general linear model. NeuroImage, 2014, 99, 571-588.	4.4	221
48	Late Fusion Incomplete Multi-View Clustering. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 2410-2423.	15.3	220
49	Testâ€“retest reliability of fMRI-based graph theoretical properties during working memory, emotion processing, and resting state. NeuroImage, 2014, 84, 888-900.	4.4	219
50	Scalable High-Performance Image Registration Framework by Unsupervised Deep Feature Representations Learning. IEEE Transactions on Biomedical Engineering, 2016, 63, 1505-1516.	4.4	219
51	Joint Classification and Regression via Deep Multi-Task Multi-Channel Learning for Alzheimer's Disease Diagnosis. IEEE Transactions on Biomedical Engineering, 2019, 66, 1195-1206.	4.4	216
52	Segmentation of prostate boundaries from ultrasound images using statistical shape model. IEEE Transactions on Medical Imaging, 2003, 22, 539-551.	9.2	214
53	Estimating CT Image From MRI Data Using Structured Random Forest and Auto-Context Model. IEEE Transactions on Medical Imaging, 2016, 35, 174-183.	9.2	212
54	BIRNet: Brain image registration using dual-supervised fully convolutional networks. Medical Image Analysis, 2019, 54, 193-206.	11.8	212

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55	Highâ€order restingâ€state functional connectivity network for MCI classification. Human Brain Mapping, 2016, 37, 3282-3296.	3.7	210
56	Mapping Region-Specific Longitudinal Cortical Surface Expansion from Birth to 2 Years of Age. Cerebral Cortex, 2013, 23, 2724-2733.	3.2	209
57	LINKS: Learning-based multi-source IntegratioN frameworK for Segmentation of infant brain images. NeuroImage, 2015, 108, 160-172.	4.4	208
58	Inter-modality relationship constrained multi-modality multi-task feature selection for Alzheimer's Disease and mild cognitive impairment identification. NeuroImage, 2014, 84, 466-475.	4.4	207
59	Brain anatomical networks in early human brain development. NeuroImage, 2011, 54, 1862-1871.	4.4	202
60	Deformable MR Prostate Segmentation via Deep Feature Learning and Sparse Patch Matching. IEEE Transactions on Medical Imaging, 2016, 35, 1077-1089.	9.2	201
61	Diagnosis of Coronavirus Disease 2019 (COVID-19) With Structured Latent Multi-View Representation Learning. IEEE Transactions on Medical Imaging, 2020, 39, 2606-2614.	9.2	199
62	IDRiD: Diabetic Retinopathy â€“ Segmentation and Grading Challenge. Medical Image Analysis, 2020, 59, 101561.	11.8	190
63	Subspace Regularized Sparse Multitask Learning for Multiclass Neurodegenerative Disease Identification. IEEE Transactions on Biomedical Engineering, 2016, 63, 607-618.	4.4	186
64	Fully convolutional networks for multi-modality isointense infant brain image segmentation. , 2016, 2016, 1342-1345.		184
65	Effective feature learning and fusion of multimodality data using stageâ€wise deep neural network for dementia diagnosis. Human Brain Mapping, 2019, 40, 1001-1016.	3.7	183
66	Amygdalaâ€“prefrontal coupling underlies individual differences in emotion regulation. NeuroImage, 2012, 62, 1575-1581.	4.4	182
67	A novel matrix-similarity based loss function for joint regression and classification in AD diagnosis. NeuroImage, 2014, 100, 91-105.	4.4	180
68	A novel relational regularization feature selection method for joint regression and classification in AD diagnosis. Medical Image Analysis, 2017, 38, 205-214.	11.8	180
69	Neonatal brain image segmentation in longitudinal MRI studies. NeuroImage, 2010, 49, 391-400.	4.4	177
70	Deformable segmentation of 3-D ultrasound prostate images using statistical texture matching method. IEEE Transactions on Medical Imaging, 2006, 25, 256-272.	9.2	176
71	Relationship Induced Multi-Template Learning for Diagnosis of Alzheimerâ€™s Disease and Mild Cognitive Impairment. IEEE Transactions on Medical Imaging, 2016, 35, 1463-1474.	9.2	175
72	Discriminant analysis of longitudinal cortical thickness changes in Alzheimer's disease using dynamic and network features. Neurobiology of Aging, 2012, 33, 427.e15-427.e30.	3.2	174

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73	Detecting Anatomical Landmarks for Fast Alzheimerâ€™s Disease Diagnosis. IEEE Transactions on Medical Imaging, 2016, 35, 2524-2533.	9.2	171
74	Approximate Radix-8 Booth Multipliers for Low-Power and High-Performance Operation. IEEE Transactions on Computers, 2016, 65, 2638-2644.	3.6	167
75	Multiple Kernel k-means with Incomplete Kernels. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 42, 1-1.	15.3	167
76	Abnormal lung quantification in chest CT images of COVIDâ€19 patients with deep learning and its application to severity prediction. Medical Physics, 2021, 48, 1633-1645.	3.1	167
77	Dementia induces correlated reductions in white matter integrity and cortical thickness: A multivariate neuroimaging study with sparse canonical correlation analysis. NeuroImage, 2010, 50, 1004-1016.	4.4	165
78	Predicting Hospital Readmission via Cost-Sensitive Deep Learning. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2018, 15, 1968-1978.	3.2	165
79	Estimating CT Image from MRI Data Using 3D Fully Convolutional Networks. Lecture Notes in Computer Science, 2016, 2016, 170-178.	0.2	162
80	Adaptive Feature Selection Guided Deep Forest for COVID-19 Classification With Chest CT. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 2798-2805.	6.9	162
81	Group-constrained sparse fMRI connectivity modeling for mild cognitive impairment identification. Brain Structure and Function, 2014, 219, 641-656.	2.4	161
82	FGFR2 amplification has prognostic significance in gastric cancer: results from a large international multicentre study. British Journal of Cancer, 2014, 110, 967-975.	6.6	160
83	ASDNet: Attention Based Semi-supervised Deep Networks for Medical Image Segmentation. Lecture Notes in Computer Science, 2018, , 370-378.	0.2	160
84	Modeling Rett Syndrome Using TALEN-Edited MECP2 Mutant Cynomolgus Monkeys. Cell, 2017, 169, 945-955.e10.	28.1	159
85	Past adult lead exposure is linked to neurodegeneration measured by brain MRI. Neurology, 2006, 66, 1476-1484.	1.1	158
86	An adaptive-focus statistical shape model for segmentation and shape modeling of 3-D brain structures. IEEE Transactions on Medical Imaging, 2001, 20, 257-270.	9.2	157
87	Spatial Patterns, Longitudinal Development, and Hemispheric Asymmetries of Cortical Thickness in Infants from Birth to 2 Years of Age. Journal of Neuroscience, 2015, 35, 9150-9162.	3.8	155
88	Domain Transfer Learning for MCI Conversion Prediction. IEEE Transactions on Biomedical Engineering, 2015, 62, 1805-1817.	4.4	155
89	The Synchronization within and Interaction between the Default and Dorsal Attention Networks in Early Infancy. Cerebral Cortex, 2013, 23, 594-603.	3.2	154
90	Extraction of dynamic functional connectivity from brain grey matter and white matter for MCI classification. Human Brain Mapping, 2017, 38, 5019-5034.	3.7	154

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91	DICCCOL: Dense Individualized and Common Connectivity-Based Cortical Landmarks. Cerebral Cortex, 2013, 23, 786-800.	3.2	153
92	Very High-Resolution Morphometry Using Mass-Preserving Deformations and HAMMER Elastic Registration. NeuroImage, 2003, 18, 28-41.	4.4	149
93	Detecting Anatomical Landmarks From Limited Medical Imaging Data Using Two-Stage Task-Oriented Deep Neural Networks. IEEE Transactions on Image Processing, 2017, 26, 4753-4764.	10.2	149
94	3D Auto-Context-Based Locality Adaptive Multi-Modality GANs for PET Synthesis. IEEE Transactions on Medical Imaging, 2019, 38, 1328-1339.	9.2	148
95	Spatial normalization of diffusion tensor fields. Magnetic Resonance in Medicine, 2003, 50, 175-182.	3.1	144
96	Lapsing when sleep deprived: Neural activation characteristics of resistant and vulnerable individuals. NeuroImage, 2010, 51, 835-843.	4.4	144
97	MRI texture features as biomarkers to predict MGMT methylation status in glioblastomas. Medical Physics, 2016, 43, 2835-2844.	3.1	144
98	Class-specific attribute weighted naive Bayes. Pattern Recognition, 2019, 88, 321-330.	8.5	144
99	High-Resolution Encoderâ€“Decoder Networks for Low-Contrast Medical Image Segmentation. IEEE Transactions on Image Processing, 2020, 29, 461-475.	10.2	144
100	Not quite PIB-positive, not quite PIB-negative: Slight PIB elevations in elderly normal control subjects are biologically relevant. NeuroImage, 2012, 59, 1152-1160.	4.4	143
101	Deep embedding convolutional neural network for synthesizing CT image from T1-Weighted MR image. Medical Image Analysis, 2018, 47, 31-44.	11.8	143
102	Hippocampus Volume Loss Due to Chronic Heavy Drinking. Alcoholism: Clinical and Experimental Research, 2006, 30, 1866-1870.	2.6	142
103	Multi-Channel 3D Deep Feature Learning for Survival Time Prediction of Brain Tumor Patients Using Multi-Modal Neuroimages. Scientific Reports, 2019, 9, 1103.	3.5	142
104	Benchmark on Automatic Six-Month-Old Infant Brain Segmentation Algorithms: The iSeg-2017 Challenge. IEEE Transactions on Medical Imaging, 2019, 38, 2219-2230.	9.2	141
105	3-D Fully Convolutional Networks for Multimodal Isointense Infant Brain Image Segmentation. IEEE Transactions on Cybernetics, 2019, 49, 1123-1136.	10.1	140
106	Automated detection and classification of thyroid nodules in ultrasound images using clinical-knowledge-guided convolutional neural networks. Medical Image Analysis, 2019, 58, 101555.	11.8	139
107	Integration of temporal and spatial properties of dynamic connectivity networks for automatic diagnosis of brain disease. Medical Image Analysis, 2018, 47, 81-94.	11.8	137
108	Latent Representation Learning for Alzheimerâ€™s Disease Diagnosis With Incomplete Multi-Modality Neuroimaging and Genetic Data. IEEE Transactions on Medical Imaging, 2019, 38, 2411-2422.	9.2	137

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109	Computational neuroanatomy of baby brains: A review. NeuroImage, 2019, 185, 906-925.	4.4	136
110	Alzheimer's Disease Diagnosis Using Landmark-Based Features From Longitudinal Structural MR Images. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 1607-1616.	6.9	135
111	A Critical Appraisal of the Hippocampal Subfield Segmentation Package in FreeSurfer. Frontiers in Aging Neuroscience, 2014, 6, 261.	3.5	133
112	Polyp detection during colonoscopy using a regression-based convolutional neural network with a tracker. Pattern Recognition, 2018, 83, 209-219.	8.5	130
113	Integration of Network Topological and Connectivity Properties for Neuroimaging Classification. IEEE Transactions on Biomedical Engineering, 2014, 61, 576-589.	4.4	129
114	Deformable Image Registration Based on Similarity-Steered CNN Regression. Lecture Notes in Computer Science, 2017, 10433, 300-308.	0.2	129
115	Anatomical Landmark Based Deep Feature Representation for MR Images in Brain Disease Diagnosis. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 1476-1485.	6.9	128
116	Resting-State Multi-Spectrum Functional Connectivity Networks for Identification of MCI Patients. PLoS ONE, 2012, 7, e37828.	2.4	128
117	Deep sparse multi-task learning for feature selection in Alzheimerâ€™s disease diagnosis. Brain Structure and Function, 2016, 221, 2569-2587.	2.4	126
118	Voxel-based morphometry studies of personality: Issue of statistical model specificationâ€”effect of nuisance covariates. NeuroImage, 2011, 54, 1994-2005.	4.4	125
119	Mapping Longitudinal Hemispheric Structural Asymmetries of the Human Cerebral Cortex From Birth to 2 Years of Age. Cerebral Cortex, 2014, 24, 1289-1300.	3.2	125
120	Interleaved 3Dâ€<scp>CNN</scp>s for joint segmentation of smallâ€volume structures in head and neck <scp>CT</scp> images. Medical Physics, 2018, 45, 2063-2075.	3.1	125
121	Segmenting Lung Fields in Serial Chest Radiographs Using Both Population-Based and Patient-Specific Shape Statistics. IEEE Transactions on Medical Imaging, 2008, 27, 481-494.	9.2	124
122	Automatic segmentation of neonatal images using convex optimization and coupled level sets. NeuroImage, 2011, 58, 805-817.	4.4	123
123	Manifold regularized multitask feature learning for multimodality disease classification. Human Brain Mapping, 2015, 36, 489-507.	3.7	123
124	Identifying Autism Spectrum Disorder With Multi-Site fMRI via Low-Rank Domain Adaptation. IEEE Transactions on Medical Imaging, 2020, 39, 644-655.	9.2	122
125	Decoding the neural representation of affective states. NeuroImage, 2012, 59, 718-727.	4.4	120
126	Construction of 4D high-definition cortical surface atlases of infants: Methods and applications. Medical Image Analysis, 2015, 25, 22-36.	11.8	120

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127	View-aligned hypergraph learning for Alzheimerâ€™s disease diagnosis with incomplete multi-modality data. Medical Image Analysis, 2017, 36, 123-134.	11.8	120
128	Measuring Size and Shape of the Hippocampus in MR Images Using a Deformable Shape Model. NeuroImage, 2002, 15, 422-434.	4.4	119
129	Axonal Fiber Terminations Concentrate on Gyri. Cerebral Cortex, 2012, 22, 2831-2839.	3.2	119
130	Altered structural connectivity in neonates at genetic risk for schizophrenia: A combined study using morphological and white matter networks. NeuroImage, 2012, 62, 1622-1633.	4.4	119
131	Recent advances in the understanding of brown spider venoms: From the biology of spiders to the molecular mechanisms of toxins. Toxicon, 2014, 83, 91-120.	2.0	119
132	Hierarchical fusion of features and classifier decisions for Alzheimer's disease diagnosis. Human Brain Mapping, 2014, 35, 1305-1319.	3.7	118
133	Cultural Shift or Linguistic Drift? Comparing Two Computational Measures of Semantic Change. , 2016, 2016, 2116-2121.		116
134	Deformable registration of cortical structures via hybrid volumetric and surface warping. NeuroImage, 2004, 22, 1790-1801.	4.4	115
135	White matter abnormalities revealed by diffusion tensor imaging in non-demented and demented HIV+ patients. NeuroImage, 2009, 47, 1154-1162.	4.4	114
136	Structural and Maturational Covariance in Early Childhood Brain Development. Cerebral Cortex, 2017, 27, bhw022.	3.2	114
137	Deep Learning of Static and Dynamic Brain Functional Networks for Early MCI Detection. IEEE Transactions on Medical Imaging, 2020, 39, 478-487.	9.2	112
138	Unaffected Family Members and Schizophrenia Patients Share Brain Structure Patterns: A High-Dimensional Pattern Classification Study. Biological Psychiatry, 2008, 63, 118-124.	1.3	111
139	SharpMean: Groupwise registration guided by sharp mean image and tree-based registration. NeuroImage, 2011, 56, 1968-1981.	4.4	111
140	CLASSIC: Consistent Longitudinal Alignment and Segmentation for Serial Image Computing. NeuroImage, 2006, 30, 388-399.	4.4	109
141	Adversarial learning for mono- or multi-modal registration. Medical Image Analysis, 2019, 58, 101545.	11.8	109
142	Topographical Information-Based High-Order Functional Connectivity and Its Application in Abnormality Detection forÂMild Cognitive Impairment. Journal of Alzheimer's Disease, 2016, 54, 1095-1112.	2.7	108
143	Hybrid High-order Functional Connectivity Networks Using Resting-state Functional MRI for Mild Cognitive Impairment Diagnosis. Scientific Reports, 2017, 7, 6530.	3.5	108
144	Resting-state functional MRI studies on infant brains: A decade of gap-filling efforts. NeuroImage, 2019, 185, 664-684.	4.4	108

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145	Strength and similarity guided group-level brain functional network construction for MCI diagnosis. Pattern Recognition, 2019, 88, 421-430.	8.5	108
146	Safety of MRI in patients with implanted deep brain stimulation devices. NeuroImage, 2009, 47, T53-T57.	4.4	107
147	Measuring temporal morphological changes robustly in brain MR images via 4-dimensional template warping. NeuroImage, 2004, 21, 1508-1517.	4.4	104
148	Voxel-based morphometry and voxel-based relaxometry in multiple system atrophyâ€"A comparison between clinical subtypes and correlations with clinical parameters. NeuroImage, 2007, 36, 1086-1095.	4.4	104
149	Topological graph kernel on multiple thresholded functional connectivity networks for mild cognitive impairment classification. Human Brain Mapping, 2014, 35, 2876-2897.	3.7	103
150	Ethylene/ethane permeation, diffusion and gas sorption properties of carbon molecular sieve membranes derived from the prototype ladder polymer of intrinsic microporosity (PIM-1). Journal of Membrane Science, 2016, 504, 133-140.	8.3	103
151	Classification of Structural Images via High-Dimensional Image Warping, Robust Feature Extraction, and SVM. Lecture Notes in Computer Science, 2005, 8, 1-8.	0.2	102
152	Longitudinal clinical score prediction in Alzheimer's disease with soft-split sparse regression based random forest. Neurobiology of Aging, 2016, 46, 180-191.	3.2	102
153	A fully automatic AI system for tooth and alveolar bone segmentation from cone-beam CT images. Nature Communications, 2022, 13, 2096.	13.2	102
154	ABSORB: Atlas building by self-organized registration and bundling. NeuroImage, 2010, 51, 1057-1070.	4.4	101
155	Î²-Amyloid affects frontal and posterior brain networks in normal aging. NeuroImage, 2011, 54, 1887-1895.	4.4	101
156	Multi-channel multi-scale fully convolutional network for 3D perivascular spaces segmentation in 7T MR images. Medical Image Analysis, 2018, 46, 106-117.	11.8	101
157	An adaptive-focus deformable model using statistical and geometric information. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2000, 22, 906-913.	15.3	100
158	Automated grading of breast cancer histopathology using cascaded ensemble with combination of multi-level image features. Neurocomputing, 2017, 229, 34-44.	6.2	100
159	Detecting Large-Scale Brain Networks Using EEG: Impact of Electrode Density, Head Modeling and Source Localization. Frontiers in Neuroinformatics, 2018, 12, 4.	2.6	100
160	Data-driven graph construction and graph learning: A review. Neurocomputing, 2018, 312, 336-351.	6.2	100
161	Hyperpolarized 13C MR spectroscopic imaging can be used to monitor Everolimus treatment in vivo in an orthotopic rodent model of glioblastoma. NeuroImage, 2012, 59, 193-201.	4.4	98
162	Integration of sparse multi-modality representation and anatomical constraint for isointense infant brain MR image segmentation. NeuroImage, 2014, 89, 152-164.	4.4	98

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163	Developmental topography of cortical thickness during infancy. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 15855-15860.	7.6	98
164	Consistent reconstruction of cortical surfaces from longitudinal brain MR images. NeuroImage, 2012, 59, 3805-3820.	4.4	97
165	Hierarchical multi-atlas label fusion with multi-scale feature representation and label-specific patch partition. NeuroImage, 2015, 106, 34-46.	4.4	95
166	Down but not out in posterior cingulate cortex: Deactivation yet functional coupling with prefrontal cortex during demanding semantic cognition. NeuroImage, 2016, 141, 366-377.	4.4	95
167	Learning-based deformable registration of MR brain images. IEEE Transactions on Medical Imaging, 2006, 25, 1145-1157.	9.2	94
168	A Hierarchical Image Matting Model for Blood Vessel Segmentation in Fundus Images. IEEE Transactions on Image Processing, 2019, 28, 2367-2377.	10.2	94
169	ORBIT: A Multiresolution Framework for Deformable Registration of Brain Tumor Images. IEEE Transactions on Medical Imaging, 2008, 27, 1003-1017.	9.2	93
170	HER2, MET and FGFR2 oncogenic driver alterations define distinct molecular segments for targeted therapies in gastric carcinoma. British Journal of Cancer, 2014, 110, 1169-1178.	6.6	93
171	Deformable Image Registration Using a Cue-Aware Deep Regression Network. IEEE Transactions on Biomedical Engineering, 2018, 65, 1900-1911.	4.4	93
172	Salivary cortisol and prefrontal cortical thickness in middle-aged men: A twin study. NeuroImage, 2010, 53, 1093-1102.	4.4	92
173	Representation Learning: A Unified Deep Learning Framework for Automatic Prostate MR Segmentation. Lecture Notes in Computer Science, 2013, 16, 254-261.	0.2	92
174	Sex differences in grey matter atrophy patterns among AD and aMCI patients: Results from ADNI. NeuroImage, 2011, 56, 890-906.	4.4	91
175	Joint feature-sample selection and robust diagnosis of Parkinson's disease from MRI data. NeuroImage, 2016, 141, 206-219.	4.4	91
176	Viewâ€centralized multiâ€atlas classification for Alzheimer's disease diagnosis. Human Brain Mapping, 2015, 36, 1847-1865.	3.7	90
177	Synthesizing Missing PET from MRI with Cycle-consistent Generative Adversarial Networks for Alzheimerâ€™s Disease Diagnosis. Lecture Notes in Computer Science, 2018, 11072, 455-463.	0.2	90
178	Regression Convolutional Neural Network for Automated Pediatric Bone Age Assessment From Hand Radiograph. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 2030-2038.	6.9	90
179	A Mutual Multi-Scale Triplet Graph Convolutional Network for Classification of Brain Disorders Using Functional or Structural Connectivity. IEEE Transactions on Medical Imaging, 2021, 40, 1279-1289.	9.2	90
180	A Human Opsin-Related Gene That Encodes a Retinaldehyde-Binding Protein. Biochemistry, 1994, 33, 13117-13125.	2.6	87

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181	Deformable registration of brain tumor images via a statistical model of tumor-induced deformation. Medical Image Analysis, 2006, 10, 752-763.	11.8	87
182	Canonical feature selection for joint regression and multi-class identification in Alzheimerâ€™s disease diagnosis. Brain Imaging and Behavior, 2016, 10, 818-828.	2.2	87
183	Deep-Learning-Based Multi-Modal Fusion for Fast MR Reconstruction. IEEE Transactions on Biomedical Engineering, 2019, 66, 2105-2114.	4.4	87
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