Dinggang Shen

List of Publications by Year
in descending order

958 papers	52,900 citations	1163 111 h-index	3094 187 g-index
979 all docs	979 docs citations	979 times ranked	34852 citing authors

#	ARTICLE	IF	CITATIONS
1	Deep Learning in Medical Image Analysis. Annual Review of Biomedical Engineering, 2017, 19, 221-248.	5.7	2,935
2	Multimodal classification of Alzheimer's disease and mild cognitive impairment. NeuroImage, 2011, 55, 856-867.	2.1	1,081
3	Detection and quantification of mutations in the plasma of patients with colorectal tumors. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 16368-16373.	3.3	1,049
4	HAMMER: hierarchical attribute matching mechanism for elastic registration. IEEE Transactions on Medical Imaging, 2002, 21, 1421-1439.	5.4	953
5	Review of Artificial Intelligence Techniques in Imaging Data Acquisition, Segmentation, and Diagnosis for COVID-19. IEEE Reviews in Biomedical Engineering, 2021, 14, 4-15.	13.1	894
6	Hierarchical feature representation and multimodal fusion with deep learning for AD/MCI diagnosis. NeuroImage, 2014, 101, 569-582.	2.1	732
7	Deep convolutional neural networks for multi-modality isointense infant brain image segmentation. NeuroImage, 2015, 108, 214-224.	2.1	662
8	Multi-modal multi-task learning for joint prediction of multiple regression and classification variables in Alzheimer's disease. NeuroImage, 2012, 59, 895-907.	2.1	576
9	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.	1.6	488
10	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.	3.3	480
11	Infant Brain Atlases from Neonates to 1- and 2-Year-Olds. PLoS ONE, 2011, 6, e18746.	1.1	458
12	Longitudinal pattern of regional brain volume change differentiates normal aging from MCI. Neurology, 2009, 72, 1906-1913.	1.5	443
13	Latent feature representation with stacked auto-encoder for AD/MCI diagnosis. Brain Structure and Function, 2015, 220, 841-859.	1.2	435
14	Medical Image Synthesis with Deep Convolutional Adversarial Networks. IEEE Transactions on Biomedical Engineering, 2018, 65, 2720-2730.	2.5	392
15	Longitudinal Development of Cortical and Subcortical Gray Matter from Birth to 2 Years. Cerebral Cortex, 2012, 22, 2478-2485.	1.6	377
16	Detection of prodromal Alzheimer's disease via pattern classification of magnetic resonance imaging. Neurobiology of Aging, 2008, 29, 514-523.	1.5	343
17	Identification of MCI individuals using structural and functional connectivity networks. NeuroImage, 2012, 59, 2045-2056.	2.1	334
18	Medical Image Synthesis with Context-Aware Generative Adversarial Networks. Lecture Notes in Computer Science, 2017, 10435, 417-425.	1.0	321

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19	COMPARE: Classification of Morphological Patterns Using Adaptive Regional Elements. IEEE Transactions on Medical Imaging, 2007, 26, 93-105.	5.4	320
20	Morphological classification of brains via high-dimensional shape transformations and machine learning methods. NeuroImage, 2004, 21, 46-57.	2.1	304
21	Landmark-based deep multi-instance learning for brain disease diagnosis. Medical Image Analysis, 2018, 43, 157-168.	7.0	302
22	3D conditional generative adversarial networks for high-quality PET image estimation at low dose. NeuroImage, 2018, 174, 550-562.	2.1	298
23	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.	9.7	298
24	Dual-Sampling Attention Network for Diagnosis of COVID-19 From Community Acquired Pneumonia. IEEE Transactions on Medical Imaging, 2020, 39, 2595-2605.	5.4	293
25	Dynamic Development of Regional Cortical Thickness and Surface Area in Early Childhood. Cerebral Cortex, 2015, 25, 2204-2212.	1.6	286
26	Ensemble sparse classification of Alzheimer's disease. NeuroImage, 2012, 60, 1106-1116.	2.1	278
27	Deep Learning-Based Feature Representation for AD/MCI Classification. Lecture Notes in Computer Science, 2013, 16, 583-590.	1.0	269
28	A Multi-Organ Nucleus Segmentation Challenge. IEEE Transactions on Medical Imaging, 2020, 39, 1380-1391.	5.4	259
29	Deep Learning Based Imaging Data Completion for Improved Brain Disease Diagnosis. Lecture Notes in Computer Science, 2014, 17, 305-312.	1.0	249
30	Whole-Brain Morphometric Study of Schizophrenia Revealing a Spatially Complex Set of Focal Abnormalities. Archives of General Psychiatry, 2005, 62, 1218.	13.8	242
31	State-space model with deep learning for functional dynamics estimation in resting-state fMRI. NeuroImage, 2016, 129, 292-307.	2.1	242
32	The UNC/UMN Baby Connectome Project (BCP): An overview of the study design and protocol development. NeuroImage, 2019, 185, 891-905.	2.1	234
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.	1.6	233
34	Predicting Future Clinical Changes of MCI Patients Using Longitudinal and Multimodal Biomarkers. PLoS ONE, 2012, 7, e33182.	1.1	226
35	Deep ensemble learning of sparse regression models for brain disease diagnosis. Medical Image Analysis, 2017, 37, 101-113.	7.0	226
36	Temporal and Spatial Evolution of Brain Network Topology during the First Two Years of Life. PLoS ONE, 2011, 6, e25278.	1.1	224

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37	A Robust Deep Model for Improved Classification of AD/MCI Patients. IEEE Journal of Biomedical and Health Informatics, 2015, 19, 1610-1616.	3.9	223
38	Prediction of Alzheimer's disease and mild cognitive impairment using cortical morphological patterns. Human Brain Mapping, 2013, 34, 3411-3425.	1.9	215
39	LRTV: MR Image Super-Resolution With Low-Rank and Total Variation Regularizations. IEEE Transactions on Medical Imaging, 2015, 34, 2459-2466.	5.4	214
40	Segmentation of prostate boundaries from ultrasound images using statistical shape model. IEEE Transactions on Medical Imaging, 2003, 22, 539-551.	5.4	213
41	Scalable High-Performance Image Registration Framework by Unsupervised Deep Feature Representations Learning. IEEE Transactions on Biomedical Engineering, 2016, 63, 1505-1516.	2.5	212
42	LINKS: Learning-based multi-source IntegratioN frameworK for Segmentation of infant brain images. NeuroImage, 2015, 108, 160-172.	2.1	208
43	Estimating CT Image From MRI Data Using Structured Random Forest and Auto-Context Model. IEEE Transactions on Medical Imaging, 2016, 35, 174-183.	5.4	205
44	Deep auto-context convolutional neural networks for standard-dose PET image estimation from low-dose PET/MRI. Neurocomputing, 2017, 267, 406-416.	3.5	205
45	High‐order resting‐state functional connectivity network for MCI classification. Human Brain Mapping, 2016, 37, 3282-3296.	1.9	204
46	Mapping Region-Specific Longitudinal Cortical Surface Expansion from Birth to 2 Years of Age. Cerebral Cortex, 2013, 23, 2724-2733.	1.6	203
47	Mapping Longitudinal Development of Local Cortical Gyrification in Infants from Birth to 2 Years of Age. Journal of Neuroscience, 2014, 34, 4228-4238.	1.7	203
48	BIRNet: Brain image registration using dual-supervised fully convolutional networks. Medical Image Analysis, 2019, 54, 193-206.	7.0	199
49	Brain anatomical networks in early human brain development. NeuroImage, 2011, 54, 1862-1871.	2.1	198
50	Inter-modality relationship constrained multi-modality multi-task feature selection for Alzheimer's Disease and mild cognitive impairment identification. NeuroImage, 2014, 84, 466-475.	2.1	198
51	Deformable MR Prostate Segmentation via Deep Feature Learning and Sparse Patch Matching. IEEE Transactions on Medical Imaging, 2016, 35, 1077-1089.	5.4	195
52	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.	2.5	194
53	Diagnosis of Coronavirus Disease 2019 (COVID-19) With Structured Latent Multi-View Representation Learning. IEEE Transactions on Medical Imaging, 2020, 39, 2606-2614.	5.4	192
54	Enriched white matter connectivity networks for accurate identification of MCI patients. NeuroImage, 2011, 54, 1812-1822.	2.1	191

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55	A deep learning system for detecting diabetic retinopathy across the disease spectrum. Nature Communications, 2021, 12, 3242.	5.8	188
56	Late Fusion Incomplete Multi-View Clustering. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 2410-2423.	9.7	187
57	Subspace Regularized Sparse Multitask Learning for Multiclass Neurodegenerative Disease Identification. IEEE Transactions on Biomedical Engineering, 2016, 63, 607-618.	2.5	181
58	Neonatal brain image segmentation in longitudinal MRI studies. NeuroImage, 2010, 49, 391-400.	2.1	177
59	A novel relational regularization feature selection method for joint regression and classification in AD diagnosis. Medical Image Analysis, 2017, 38, 205-214.	7.0	176
60	Fully convolutional networks for multi-modality isointense infant brain image segmentation. , 2016, 2016, 1342-1345.		175
61	A novel matrix-similarity based loss function for joint regression and classification in AD diagnosis. NeuroImage, 2014, 100, 91-105.	2.1	174
62	Deformable segmentation of 3-D ultrasound prostate images using statistical texture matching method. IEEE Transactions on Medical Imaging, 2006, 25, 256-272.	5.4	173
63	Effective feature learning and fusion of multimodality data using stage‑wise deep neural network for dementia diagnosis. Human Brain Mapping, 2019, 40, 1001-1016.	1.9	171
64	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.	1.5	167
65	Development Trends of White Matter Connectivity in the First Years of Life. PLoS ONE, 2011, 6, e24678.	1.1	167
66	Relationship Induced Multi-Template Learning for Diagnosis of Alzheimer's Disease and Mild Cognitive Impairment. IEEE Transactions on Medical Imaging, 2016, 35, 1463-1474.	5.4	165
67	IDRiD: Diabetic Retinopathy – Segmentation and Grading Challenge. Medical Image Analysis, 2020, 59, 101561.	7.0	162
68	Segmentation of neonatal brain MR images using patch-driven level sets. NeuroImage, 2014, 84, 141-158.	2.1	161
69	Group-constrained sparse fMRI connectivity modeling for mild cognitive impairment identification. Brain Structure and Function, 2014, 219, 641-656.	1.2	160
70	3D Deep Learning for Multi-modal Imaging-Guided Survival Time Prediction of Brain Tumor Patients. Lecture Notes in Computer Science, 2016, 9901, 212-220.	1.0	160
71	Detecting Anatomical Landmarks for Fast Alzheimer's Disease Diagnosis. IEEE Transactions on Medical Imaging, 2016, 35, 2524-2533.	5.4	158
72	Modeling Rett Syndrome Using TALEN-Edited MECP2 Mutant Cynomolgus Monkeys. Cell, 2017, 169, 945-955.e10.	13.5	158

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73	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.	5.4	157
74	Past adult lead exposure is linked to neurodegeneration measured by brain MRI. Neurology, 2006, 66, 1476-1484.	1.5	157
75	FGFR2 amplification has prognostic significance in gastric cancer: results from a large international multicentre study. British Journal of Cancer, 2014, 110, 967-975.	2.9	154
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.	1.6	154
77	DICCCOL: Dense Individualized and Common Connectivity-Based Cortical Landmarks. Cerebral Cortex, 2013, 23, 786-800.	1.6	153
78	Sparse temporally dynamic resting-state functional connectivity networks for early MCI identification. Brain Imaging and Behavior, 2016, 10, 342-356.	1.1	153
79	Estimating CT Image from MRI Data Using 3D Fully Convolutional Networks. Lecture Notes in Computer Science, 2016, 2016, 170-178.	1.0	151
80	Extraction of dynamic functional connectivity from brain grey matter and white matter for MCI classification. Human Brain Mapping, 2017, 38, 5019-5034.	1.9	151
81	Multi-task learning for segmentation and classification of tumors in 3D automated breast ultrasound images. Medical Image Analysis, 2021, 70, 101918.	7.0	151
82	ASDNet: Attention Based Semi-supervised Deep Networks for Medical Image Segmentation. Lecture Notes in Computer Science, 2018, , 370-378.	1.0	150
83	Adaptive Feature Selection Guided Deep Forest for COVID-19 Classification With Chest CT. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 2798-2805.	3.9	149
84	Very High-Resolution Morphometry Using Mass-Preserving Deformations and HAMMER Elastic Registration. NeuroImage, 2003, 18, 28-41.	2.1	148
85	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.	1.7	148
86	Domain Transfer Learning for MCI Conversion Prediction. IEEE Transactions on Biomedical Engineering, 2015, 62, 1805-1817.	2.5	148
87	LABEL: Pediatric brain extraction using learning-based meta-algorithm. NeuroImage, 2012, 62, 1975-1986.	2.1	147
88	The Synchronization within and Interaction between the Default and Dorsal Attention Networks in Early Infancy. Cerebral Cortex, 2013, 23, 594-603.	1.6	147
89	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.	6.0	145
90	Multiple Kernel k-means with Incomplete Kernels. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 42, 1-1.	9.7	144

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91	Spatial normalization of diffusion tensor fields. Magnetic Resonance in Medicine, 2003, 50, 175-182.	1.9	143
92	Hippocampus Volume Loss Due to Chronic Heavy Drinking. Alcoholism: Clinical and Experimental Research, 2006, 30, 1866-1870.	1.4	141
93	Deep embedding convolutional neural network for synthesizing CT image from T1-Weighted MR image. Medical Image Analysis, 2018, 47, 31-44.	7.0	137
94	3D Auto-Context-Based Locality Adaptive Multi-Modality GANs for PET Synthesis. IEEE Transactions on Medical Imaging, 2019, 38, 1328-1339.	5.4	137
95	Benchmark on Automatic Six-Month-Old Infant Brain Segmentation Algorithms: The iSeg-2017 Challenge. IEEE Transactions on Medical Imaging, 2019, 38, 2219-2230.	5.4	136
96	3-D Fully Convolutional Networks for Multimodal Isointense Infant Brain Image Segmentation. IEEE Transactions on Cybernetics, 2019, 49, 1123-1136.	6.2	133
97	Multi-Channel 3D Deep Feature Learning for Survival Time Prediction of Brain Tumor Patients Using Multi-Modal Neuroimages. Scientific Reports, 2019, 9, 1103.	1.6	133
98	Automated detection and classification of thyroid nodules in ultrasound images using clinical-knowledge-guided convolutional neural networks. Medical Image Analysis, 2019, 58, 101555.	7.0	131
99	Resting-State Multi-Spectrum Functional Connectivity Networks for Identification of MCI Patients. PLoS ONE, 2012, 7, e37828.	1.1	127
100	High-Resolution Encoder–Decoder Networks for Low-Contrast Medical Image Segmentation. IEEE Transactions on Image Processing, 2020, 29, 461-475.	6.0	126
101	Integration of Network Topological and Connectivity Properties for Neuroimaging Classification. IEEE Transactions on Biomedical Engineering, 2014, 61, 576-589.	2.5	125
102	Computational neuroanatomy of baby brains: A review. NeuroImage, 2019, 185, 906-925.	2.1	125
103	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.	5.4	124
104	Deep sparse multi-task learning for feature selection in Alzheimer's disease diagnosis. Brain Structure and Function, 2016, 221, 2569-2587.	1.2	124
105	Latent Representation Learning for Alzheimer's Disease Diagnosis With Incomplete Multi-Modality Neuroimaging and Genetic Data. IEEE Transactions on Medical Imaging, 2019, 38, 2411-2422.	5.4	124
106	Integration of temporal and spatial properties of dynamic connectivity networks for automatic diagnosis of brain disease. Medical Image Analysis, 2018, 47, 81-94.	7.0	123
107	Polyp detection during colonoscopy using a regression-based convolutional neural network with a tracker. Pattern Recognition, 2018, 83, 209-219.	5.1	122
108	Multivariate examination of brain abnormality using both structural and functional MRI. NeuroImage, 2007, 36, 1189-1199.	2.1	121

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109	Mapping Longitudinal Hemispheric Structural Asymmetries of the Human Cerebral Cortex From Birth to 2 Years of Age. Cerebral Cortex, 2014, 24, 1289-1300.	1.6	121
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.	3.9	121
111	Deformable Image Registration Based on Similarity-Steered CNN Regression. Lecture Notes in Computer Science, 2017, 10433, 300-308.	1.0	121
112	Image registration by local histogram matching. Pattern Recognition, 2007, 40, 1161-1172.	5.1	120
113	Automatic segmentation of neonatal images using convex optimization and coupled level sets. NeuroImage, 2011, 58, 805-817.	2.1	120
114	Measuring Size and Shape of the Hippocampus in MR Images Using a Deformable Shape Model. NeuroImage, 2002, 15, 422-434.	2.1	119
115	Iterative multi-atlas-based multi-image segmentation with tree-based registration. NeuroImage, 2012, 59, 422-430.	2.1	119
116	Interleaved 3D‐<scp>CNN</scp>s for joint segmentation of small‐volume structures in head and neck <scp>CT</scp> images. Medical Physics, 2018, 45, 2063-2075.	1.6	119
117	Axonal Fiber Terminations Concentrate on Gyri. Cerebral Cortex, 2012, 22, 2831-2839.	1.6	116
118	Deformable registration of cortical structures via hybrid volumetric and surface warping. NeuroImage, 2004, 22, 1790-1801.	2.1	114
119	Altered structural connectivity in neonates at genetic risk for schizophrenia: A combined study using morphological and white matter networks. NeuroImage, 2012, 62, 1622-1633.	2.1	114
120	Manifold regularized multitask feature learning for multimodality disease classification. Human Brain Mapping, 2015, 36, 489-507.	1.9	114
121	Anatomical Landmark Based Deep Feature Representation for MR Images in Brain Disease Diagnosis. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 1476-1485.	3.9	114
122	White matter abnormalities revealed by diffusion tensor imaging in non-demented and demented HIV+ patients. NeuroImage, 2009, 47, 1154-1162.	2.1	113
123	Measuring the dynamic longitudinal cortex development in infants by reconstruction of temporally consistent cortical surfaces. NeuroImage, 2014, 90, 266-279.	2.1	113
124	Hierarchical fusion of features and classifier decisions for Alzheimer's disease diagnosis. Human Brain Mapping, 2014, 35, 1305-1319.	1.9	113
125	Hyper-connectivity of functional networks for brain disease diagnosis. Medical Image Analysis, 2016, 32, 84-100.	7.0	113
126	View-aligned hypergraph learning for Alzheimer's disease diagnosis with incomplete multi-modality data. Medical Image Analysis, 2017, 36, 123-134.	7.0	113

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127	Construction of 4D high-definition cortical surface atlases of infants: Methods and applications. Medical Image Analysis, 2015, 25, 22-36.	7.0	112
128	Unaffected Family Members and Schizophrenia Patients Share Brain Structure Patterns: A High-Dimensional Pattern Classification Study. Biological Psychiatry, 2008, 63, 118-124.	0.7	111
129	Estimating functional brain networks by incorporating a modularity prior. NeuroImage, 2016, 141, 399-407.	2.1	111
130	Structural and Maturational Covariance in Early Childhood Brain Development. Cerebral Cortex, 2017, 27, bhw022.	1.6	111
131	SharpMean: Groupwise registration guided by sharp mean image and tree-based registration. NeuroImage, 2011, 56, 1968-1981.	2.1	110
132	CLASSIC: Consistent Longitudinal Alignment and Segmentation for Serial Image Computing. NeuroImage, 2006, 30, 388-399.	2.1	109
133	Identifying Autism Spectrum Disorder With Multi-Site fMRI via Low-Rank Domain Adaptation. IEEE Transactions on Medical Imaging, 2020, 39, 644-655.	5.4	109
134	Spatial distribution and longitudinal development of deep cortical sulcal landmarks in infants. NeuroImage, 2014, 100, 206-218.	2.1	107
135	A generative probability model of joint label fusion for multi-atlas based brain segmentation. Medical Image Analysis, 2014, 18, 881-890.	7.0	107
136	Measuring temporal morphological changes robustly in brain MR images via 4-dimensional template warping. NeuroImage, 2004, 21, 1508-1517.	2.1	104
137	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.	1.2	103
138	Hybrid High-order Functional Connectivity Networks Using Resting-state Functional MRI for Mild Cognitive Impairment Diagnosis. Scientific Reports, 2017, 7, 6530.	1.6	102
139	Classification of Structural Images via High-Dimensional Image Warping, Robust Feature Extraction, and SVM. Lecture Notes in Computer Science, 2005, 8, 1-8.	1.0	101
140	Strength and similarity guided group-level brain functional network construction for MCI diagnosis. Pattern Recognition, 2019, 88, 421-430.	5.1	101
141	An adaptive-focus deformable model using statistical and geometric information. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2000, 22, 906-913.	9.7	100
142	ABSORB: Atlas building by self-organized registration and bundling. NeuroImage, 2010, 51, 1057-1070.	2.1	100
143	Adversarial learning for mono- or multi-modal registration. Medical Image Analysis, 2019, 58, 101545.	7.0	100
144	Deep Learning of Static and Dynamic Brain Functional Networks for Early MCI Detection. IEEE Transactions on Medical Imaging, 2020, 39, 478-487.	5.4	100

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145	Longitudinal clinical score prediction in Alzheimer's disease with soft-split sparse regression based random forest. Neurobiology of Aging, 2016, 46, 180-191.	1.5	99
146	Topological graph kernel on multiple thresholded functional connectivity networks for mild cognitive impairment classification. Human Brain Mapping, 2014, 35, 2876-2897.	1.9	98
147	Construction of multi-region-multi-reference atlases for neonatal brain MRI segmentation. NeuroImage, 2010, 51, 684-693.	2.1	96
148	Consistent reconstruction of cortical surfaces from longitudinal brain MR images. NeuroImage, 2012, 59, 3805-3820.	2.1	96
149	Integration of sparse multi-modality representation and anatomical constraint for isointense infant brain MR image segmentation. NeuroImage, 2014, 89, 152-164.	2.1	96
150	Inherent Structure-Based Multiview Learning With Multitemplate Feature Representation for Alzheimer's Disease Diagnosis. IEEE Transactions on Biomedical Engineering, 2016, 63, 1473-1482.	2.5	96
151	Multimodality image registration by maximization of quantitative–qualitative measure of mutual information. Pattern Recognition, 2008, 41, 285-298.	5.1	95
152	Hierarchical multi-atlas label fusion with multi-scale feature representation and label-specific patch partition. NeuroImage, 2015, 106, 34-46.	2.1	95
153	Learning-based deformable registration of MR brain images. IEEE Transactions on Medical Imaging, 2006, 25, 1145-1157.	5.4	93
154	Data-driven graph construction and graph learning: A review. Neurocomputing, 2018, 312, 336-351.	3.5	93
155	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.	2.9	91
156	Multi-channel multi-scale fully convolutional network for 3D perivascular spaces segmentation in 7T MR images. Medical Image Analysis, 2018, 46, 106-117.	7.0	91
157	Resting-state functional MRI studies on infant brains: A decade of gap-filling efforts. NeuroImage, 2019, 185, 664-684.	2.1	91
158	Representation Learning: A Unified Deep Learning Framework for Automatic Prostate MR Segmentation. Lecture Notes in Computer Science, 2013, 16, 254-261.	1.0	91
159	ORBIT: A Multiresolution Framework for Deformable Registration of Brain Tumor Images. IEEE Transactions on Medical Imaging, 2008, 27, 1003-1017.	5.4	89
160	View‐centralized multi‐atlas classification for Alzheimer's disease diagnosis. Human Brain Mapping, 2015, 36, 1847-1865.	1.9	88
161	Weakly Supervised Segmentation of COVID19 Infection with Scribble Annotation on CT Images. Pattern Recognition, 2022, 122, 108341.	5.1	88
162	Deformable registration of brain tumor images via a statistical model of tumor-induced deformation. Medical Image Analysis, 2006, 10, 752-763.	7.0	87

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163	Neurodegenerative disease diagnosis using incomplete multi-modality data via matrix shrinkage and completion. NeuroImage, 2014, 91, 386-400.	2.1	87
164	Joint feature-sample selection and robust diagnosis of Parkinson's disease from MRI data. NeuroImage, 2016, 141, 206-219.	2.1	87
165	Sex differences in grey matter atrophy patterns among AD and aMCI patients: Results from ADNI. NeuroImage, 2011, 56, 890-906.	2.1	86
166	Deformable Image Registration Using a Cue-Aware Deep Regression Network. IEEE Transactions on Biomedical Engineering, 2018, 65, 1900-1911.	2.5	86
167	Robust Deformable-Surface-Based Skull-Stripping for Large-Scale Studies. Lecture Notes in Computer Science, 2011, 14, 635-642.	1.0	86
168	A Human Opsin-Related Gene That Encodes a Retinaldehyde-Binding Protein. Biochemistry, 1994, 33, 13117-13125.	1.2	85
169	Unsupervised Deep Feature Learning for Deformable Registration of MR Brain Images. Lecture Notes in Computer Science, 2013, 16, 649-656.	1.0	85
170	Canonical feature selection for joint regression and multi-class identification in Alzheimer's disease diagnosis. Brain Imaging and Behavior, 2016, 10, 818-828.	1.1	85
171	Connectivity strength-weighted sparse group representation-based brain network construction for M<scp>CI</scp> classification. Human Brain Mapping, 2017, 38, 2370-2383.	1.9	85
172	Simulating deformations of MR brain images for validation of atlas-based segmentation and registration algorithms. NeuroImage, 2006, 33, 855-866.	2.1	84
173	Spatiotemporal maturation patterns of murine brain quantified by diffusion tensor MRI and deformation-based morphometry. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 6978-6983.	3.3	82
174	Developmental topography of cortical thickness during infancy. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 15855-15860.	3.3	82
175	Regression Convolutional Neural Network for Automated Pediatric Bone Age Assessment From Hand Radiograph. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 2030-2038.	3.9	82
176	Multimodal manifold-regularized transfer learning for MCI conversion prediction. Brain Imaging and Behavior, 2015, 9, 913-926.	1.1	81
177	Statistical representation of high-dimensional deformation fields with application to statistically constrained 3D warping. Medical Image Analysis, 2006, 10, 740-751.	7.0	80
178	Synthesizing Missing PET from MRI with Cycle-consistent Generative Adversarial Networks for Alzheimer's Disease Diagnosis. Lecture Notes in Computer Science, 2018, 11072, 455-463.	1.0	80
179	Automated morphometric study of brain variation in XXY males. NeuroImage, 2004, 23, 648-653.	2.1	79
180	Knowledge-Guided Robust MRI Brain Extraction for Diverse Large-Scale Neuroimaging Studies on Humans and Non-Human Primates. PLoS ONE, 2014, 9, e77810.	1.1	79

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181	Pelvic Organ Segmentation Using Distinctive Curve Guided Fully Convolutional Networks. IEEE Transactions on Medical Imaging, 2019, 38, 585-595.	5.4	79
182	Synergistic learning of lung lobe segmentation and hierarchical multi-instance classification for automated severity assessment of COVID-19 in CT images. Pattern Recognition, 2021, 113, 107828.	5.1	78
183	Non-diffeomorphic registration of brain tumor images by simulating tissue loss and tumor growth. NeuroImage, 2009, 46, 762-774.	2.1	77
184	Diagnosis of autism spectrum disorders using regional and interregional morphological features. Human Brain Mapping, 2014, 35, 3414-3430.	1.9	77
185	Remodeling Pearson's Correlation for Functional Brain Network Estimation and Autism Spectrum Disorder Identification. Frontiers in Neuroinformatics, 2017, 11, 55.	1.3	77
186	Deep Learning for Fast and Spatially Constrained Tissue Quantification From Highly Accelerated Data in Magnetic Resonance Fingerprinting. IEEE Transactions on Medical Imaging, 2019, 38, 2364-2374.	5.4	77
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