

Dinggang Shen

List of Publications by Citations

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

931
papers

35,383
citations

93
h-index

156
g-index

979
ext. papers

42,877
ext. citations

5.3
avg, IF

8.06
L-index

#	Paper	IF	Citations
930	Deep Learning in Medical Image Analysis. <i>Annual Review of Biomedical Engineering</i> , 2017 , 19, 221-248	11.6	1683
929	Detection and quantification of mutations in the plasma of patients with colorectal tumors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 16368-73	11.1	855
928	Multimodal classification of Alzheimer's disease and mild cognitive impairment. <i>NeuroImage</i> , 2011 , 55, 856-67	7.7	819
927	HAMMER: hierarchical attribute matching mechanism for elastic registration. <i>IEEE Transactions on Medical Imaging</i> , 2002 , 21, 1421-39	11	741
926	Hierarchical feature representation and multimodal fusion with deep learning for AD/MCI diagnosis. <i>NeuroImage</i> , 2014 , 101, 569-82	7.7	509
925	Deep convolutional neural networks for multi-modality isointense infant brain image segmentation. <i>NeuroImage</i> , 2015 , 108, 214-24	7.7	506
924	Review of Artificial Intelligence Techniques in Imaging Data Acquisition, Segmentation, and Diagnosis for COVID-19. <i>IEEE Reviews in Biomedical Engineering</i> , 2021 , 14, 4-15	6.1	494
923	Multi-modal multi-task learning for joint prediction of multiple regression and classification variables in Alzheimer's disease. <i>NeuroImage</i> , 2012 , 59, 895-907	7.7	437
922	Evidence on the emergence of the brain's default network from 2-week-old to 2-year-old healthy pediatric subjects. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 6790-5	11.1	394
921	Longitudinal pattern of regional brain volume change differentiates normal aging from MCI. <i>Neurology</i> , 2009 , 72, 1906-13	5.7	361
920	Computer-Aided Diagnosis with Deep Learning Architecture: Applications to Breast Lesions in US Images and Pulmonary Nodules in CT Scans. <i>Scientific Reports</i> , 2016 , 6, 24454	4.7	340
919	Infant brain atlases from neonates to 1- and 2-year-olds. <i>PLoS ONE</i> , 2011 , 6, e18746	3.6	322
918	Longitudinal development of cortical and subcortical gray matter from birth to 2 years. <i>Cerebral Cortex</i> , 2012 , 22, 2478-85	5	309
917	Latent feature representation with stacked auto-encoder for AD/MCI diagnosis. <i>Brain Structure and Function</i> , 2015 , 220, 841-59	3.9	292
916	Detection of prodromal Alzheimer's disease via pattern classification of magnetic resonance imaging. <i>Neurobiology of Aging</i> , 2008 , 29, 514-23	5.4	298
915	Identification of MCI individuals using structural and functional connectivity networks. <i>NeuroImage</i> , 2012 , 59, 2045-56	7.7	285
914	COMPARE: classification of morphological patterns using adaptive regional elements. <i>IEEE Transactions on Medical Imaging</i> , 2007 , 26, 93-105	11	270

913	Morphological classification of brains via high-dimensional shape transformations and machine learning methods. <i>NeuroImage</i> , 2004 , 21, 46-57	7.7	269
912	Ensemble sparse classification of Alzheimer's disease. <i>NeuroImage</i> , 2012 , 60, 1106-16	7.7	219
911	Medical Image Synthesis with Deep Convolutional Adversarial Networks. <i>IEEE Transactions on Biomedical Engineering</i> , 2018 , 65, 2720-2730	4.6	212
910	Whole-brain morphometric study of schizophrenia revealing a spatially complex set of focal abnormalities. <i>Archives of General Psychiatry</i> , 2005 , 62, 1218-27		216
909	Medical Image Synthesis with Context-Aware Generative Adversarial Networks. <i>Lecture Notes in Computer Science</i> , 2017 , 10435, 417-425	0.8	204
908	Deep learning-based feature representation for AD/MCI classification. <i>Lecture Notes in Computer Science</i> , 2013 , 16, 583-90	0.8	189
907	Dynamic Development of Regional Cortical Thickness and Surface Area in Early Childhood. <i>Cerebral Cortex</i> , 2015 , 25, 2204-12	5	193
906	Temporal and spatial evolution of brain network topology during the first two years of life. <i>PLoS ONE</i> , 2011 , 6, e25278	3.6	188
905	3D conditional generative adversarial networks for high-quality PET image estimation at low dose. <i>NeuroImage</i> , 2018 , 174, 550-562	7.7	181
904	Predicting future clinical changes of MCI patients using longitudinal and multimodal biomarkers. <i>PLoS ONE</i> , 2012 , 7, e33182	3.6	174
903	Deep learning based imaging data completion for improved brain disease diagnosis. <i>Lecture Notes in Computer Science</i> , 2014 , 17, 305-12	0.8	170
902	Landmark-based deep multi-instance learning for brain disease diagnosis. <i>Medical Image Analysis</i> , 2018 , 43, 157-168	14.7	169
901	Segmentation of prostate boundaries from ultrasound images using statistical shape model. <i>IEEE Transactions on Medical Imaging</i> , 2003 , 22, 539-51	11	156
900	LINKS: learning-based multi-source IntegratiON framework for Segmentation of infant brain images. <i>NeuroImage</i> , 2015 , 108, 160-72	7.7	164
899	Enriched white matter connectivity networks for accurate identification of MCI patients. <i>NeuroImage</i> , 2011 , 54, 1812-22	7.7	164
898	Mapping longitudinal development of local cortical gyrification in infants from birth to 2 years of age. <i>Journal of Neuroscience</i> , 2014 , 34, 4228-38	6.4	164
897	State-space model with deep learning for functional dynamics estimation in resting-state fMRI. <i>NeuroImage</i> , 2016 , 129, 292-307	7.7	160
896	Scalable High-Performance Image Registration Framework by Unsupervised Deep Feature Representations Learning. <i>IEEE Transactions on Biomedical Engineering</i> , 2016 , 63, 1505-16	4.6	149

895	Prediction of Alzheimer's disease and mild cognitive impairment using cortical morphological patterns. <i>Human Brain Mapping</i> , 2013 , 34, 3411-25	5.8	153
894	Brain anatomical networks in early human brain development. <i>NeuroImage</i> , 2011 , 54, 1862-71	7.7	159
893	Neonatal brain image segmentation in longitudinal MRI studies. <i>NeuroImage</i> , 2010 , 49, 391-400	7.7	155
892	A Robust Deep Model for Improved Classification of AD/MCI Patients. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2015 , 19, 1610-6	6.7	148
891	Mapping region-specific longitudinal cortical surface expansion from birth to 2 years of age. <i>Cerebral Cortex</i> , 2013 , 23, 2724-33	5	154
890	Deformable MR Prostate Segmentation via Deep Feature Learning and Sparse Patch Matching. <i>IEEE Transactions on Medical Imaging</i> , 2016 , 35, 1077-89	11	142
889	Estimating CT Image From MRI Data Using Structured Random Forest and Auto-Context Model. <i>IEEE Transactions on Medical Imaging</i> , 2016 , 35, 174-83	11	144
888	Dual-Sampling Attention Network for Diagnosis of COVID-19 From Community Acquired Pneumonia. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 2595-2605	11	151
887	Inter-modality relationship constrained multi-modality multi-task feature selection for Alzheimer's Disease and mild cognitive impairment identification. <i>NeuroImage</i> , 2014 , 84, 466-75	7.7	148
886	Subspace Regularized Sparse Multitask Learning for Multiclass Neurodegenerative Disease Identification. <i>IEEE Transactions on Biomedical Engineering</i> , 2016 , 63, 607-18	4.6	136
885	High-order resting-state functional connectivity network for MCI classification. <i>Human Brain Mapping</i> , 2016 , 37, 3282-96	5.8	137
884	Deep ensemble learning of sparse regression models for brain disease diagnosis. <i>Medical Image Analysis</i> , 2017 , 37, 101-113	14.7	139
883	Development trends of white matter connectivity in the first years of life. <i>PLoS ONE</i> , 2011 , 6, e24678	3.6	142
882	Deformable segmentation of 3-D ultrasound prostate images using statistical texture matching method. <i>IEEE Transactions on Medical Imaging</i> , 2006 , 25, 256-72	11	138
881	The UNC/UMN Baby Connectome Project (BCP): An overview of the study design and protocol development. <i>NeuroImage</i> , 2019 , 185, 891-905	7.7	134
880	A novel matrix-similarity based loss function for joint regression and classification in AD diagnosis. <i>NeuroImage</i> , 2014 , 100, 91-105	7.7	137
879	A novel relational regularization feature selection method for joint regression and classification in AD diagnosis. <i>Medical Image Analysis</i> , 2017 , 38, 205-214	14.7	132
878	Segmentation of neonatal brain MR images using patch-driven level sets. <i>NeuroImage</i> , 2014 , 84, 141-58	7.7	135

877	LABEL: pediatric brain extraction using learning-based meta-algorithm. <i>NeuroImage</i> , 2012 , 62, 1975-86	7.7	134
876	Deep Auto-context Convolutional Neural Networks for Standard-Dose PET Image Estimation from Low-Dose PET/MRI. <i>Neurocomputing</i> , 2017 , 267, 406-416	5.1	135
875	Discriminant analysis of longitudinal cortical thickness changes in Alzheimer's disease using dynamic and network features. <i>Neurobiology of Aging</i> , 2012 , 33, 427.e15-30	5.4	130
874	Past adult lead exposure is linked to neurodegeneration measured by brain MRI. <i>Neurology</i> , 2006 , 66, 1476-84	5.7	135
873	Very high-resolution morphometry using mass-preserving deformations and HAMMER elastic registration. <i>NeuroImage</i> , 2003 , 18, 28-41	7.7	133
872	LRTV: MR Image Super-Resolution With Low-Rank and Total Variation Regularizations. <i>IEEE Transactions on Medical Imaging</i> , 2015 , 34, 2459-66	11	128
871	Hierarchical Fully Convolutional Network for Joint Atrophy Localization and Alzheimer's Disease Diagnosis Using Structural MRI. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2020 , 42, 880-893	11.5	129
870	FGFR2 amplification has prognostic significance in gastric cancer: results from a large international multicentre study. <i>British Journal of Cancer</i> , 2014 , 110, 967-75	8.3	126
869	Hippocampus volume loss due to chronic heavy drinking. <i>Alcoholism: Clinical and Experimental Research</i> , 2006 , 30, 1866-70	3.7	125
868	Spatial normalization of diffusion tensor fields. <i>Magnetic Resonance in Medicine</i> , 2003 , 50, 175-82	4.3	125
867	DICCCOL: dense individualized and common connectivity-based cortical landmarks. <i>Cerebral Cortex</i> , 2013 , 23, 786-800	5	116
866	An adaptive-focus statistical shape model for segmentation and shape modeling of 3-D brain structures. <i>IEEE Transactions on Medical Imaging</i> , 2001 , 20, 257-70	11	118
865	Relationship Induced Multi-Template Learning for Diagnosis of Alzheimer's Disease and Mild Cognitive Impairment. <i>IEEE Transactions on Medical Imaging</i> , 2016 , 35, 1463-74	11	115
864	Diagnosis of Coronavirus Disease 2019 (COVID-19) With Structured Latent Multi-View Representation Learning. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 2606-2614	11	114
863	FULLY CONVOLUTIONAL NETWORKS FOR MULTI-MODALITY ISOINTENSE INFANT BRAIN IMAGE SEGMENTATION 2016 , 2016, 1342-1345	1.4	102
862	The synchronization within and interaction between the default and dorsal attention networks in early infancy. <i>Cerebral Cortex</i> , 2013 , 23, 594-603	5	114
861	Group-constrained sparse fMRI connectivity modeling for mild cognitive impairment identification. <i>Brain Structure and Function</i> , 2014 , 219, 641-56	3.9	111
860	Estimating CT Image from MRI Data Using 3D Fully Convolutional Networks. <i>Lecture Notes in Computer Science</i> , 2016 , 2016, 170-178	0.8	109

859	Sparse temporally dynamic resting-state functional connectivity networks for early MCI identification. <i>Brain Imaging and Behavior</i> , 2016 , 10, 342-56	4	106
858	3D Deep Learning for Multi-modal Imaging-Guided Survival Time Prediction of Brain Tumor Patients. <i>Lecture Notes in Computer Science</i> , 2016 , 9901, 212-220	0.8	102
857	Detecting Anatomical Landmarks for Fast Alzheimer's Disease Diagnosis. <i>IEEE Transactions on Medical Imaging</i> , 2016 , 35, 2524-2533	11	97
856	Spatial Patterns, Longitudinal Development, and Hemispheric Asymmetries of Cortical Thickness in Infants from Birth to 2 Years of Age. <i>Journal of Neuroscience</i> , 2015 , 35, 9150-62	6.4	104
855	Automatic segmentation of neonatal images using convex optimization and coupled level sets. <i>NeuroImage</i> , 2011 , 58, 805-17	7.7	101
854	Unaffected family members and schizophrenia patients share brain structure patterns: a high-dimensional pattern classification study. <i>Biological Psychiatry</i> , 2008 , 63, 118-24	1.9	99
853	Large-scale screening of COVID-19 from community acquired pneumonia using infection size-aware classification. <i>Physics in Medicine and Biology</i> , 2021 ,	3.6	101
852	Measuring size and shape of the hippocampus in MR images using a deformable shape model. <i>NeuroImage</i> , 2002 , 15, 422-34	7.7	98
851	SharpMean: groupwise registration guided by sharp mean image and tree-based registration. <i>NeuroImage</i> , 2011 , 56, 1968-81	7.7	98
850	Segmenting lung fields in serial chest radiographs using both population-based and patient-specific shape statistics. <i>IEEE Transactions on Medical Imaging</i> , 2008 , 27, 481-94	11	88
849	Modeling Rett Syndrome Using TALEN-Edited MECP2 Mutant Cynomolgus Monkeys. <i>Cell</i> , 2017 , 169, 945-955.e10	54.5	101
848	Resting-state multi-spectrum functional connectivity networks for identification of MCI patients. <i>PLoS ONE</i> , 2012 , 7, e37828	3.6	94
847	Domain Transfer Learning for MCI Conversion Prediction. <i>IEEE Transactions on Biomedical Engineering</i> , 2015 , 62, 1805-1817	4.6	99
846	Altered structural connectivity in neonates at genetic risk for schizophrenia: a combined study using morphological and white matter networks. <i>NeuroImage</i> , 2012 , 62, 1622-33	7.7	97
845	Detecting Anatomical Landmarks From Limited Medical Imaging Data Using Two-Stage Task-Oriented Deep Neural Networks. <i>IEEE Transactions on Image Processing</i> , 2017 , 26, 4753-4764	7.5	91
844	White matter abnormalities revealed by diffusion tensor imaging in non-demented and demented HIV+ patients. <i>NeuroImage</i> , 2009 , 47, 1154-62	7.7	98
843	CLASSIC: consistent longitudinal alignment and segmentation for serial image computing. <i>NeuroImage</i> , 2006 , 30, 388-99	7.7	96
842	Deformable registration of cortical structures via hybrid volumetric and surface warping. <i>NeuroImage</i> , 2004 , 22, 1790-801	7.7	95

841	BIRNet: Brain image registration using dual-supervised fully convolutional networks. <i>Medical Image Analysis</i> , 2019 , 54, 193-206	14.7	88
840	Mapping longitudinal hemispheric structural asymmetries of the human cerebral cortex from birth to 2 years of age. <i>Cerebral Cortex</i> , 2014 , 24, 1289-300	5	93
839	Multivariate examination of brain abnormality using both structural and functional MRI. <i>NeuroImage</i> , 2007 , 36, 1189-99	7.7	92
838	Measuring temporal morphological changes robustly in brain MR images via 4-dimensional template warping. <i>NeuroImage</i> , 2004 , 21, 1508-17	7.7	94
837	A generative probability model of joint label fusion for multi-atlas based brain segmentation. <i>Medical Image Analysis</i> , 2014 , 18, 881-90	14.7	93
836	Deep embedding convolutional neural network for synthesizing CT image from T1-Weighted MR image. <i>Medical Image Analysis</i> , 2018 , 47, 31-44	14.7	92
835	Measuring the dynamic longitudinal cortex development in infants by reconstruction of temporally consistent cortical surfaces. <i>NeuroImage</i> , 2014 , 90, 266-79	7.7	88
834	Iterative multi-atlas-based multi-image segmentation with tree-based registration. <i>NeuroImage</i> , 2012 , 59, 422-30	7.7	92
833	Structural and Maturational Covariance in Early Childhood Brain Development. <i>Cerebral Cortex</i> , 2017 , 27, 1795-1807	5	91
832	Extraction of dynamic functional connectivity from brain grey matter and white matter for MCI classification. <i>Human Brain Mapping</i> , 2017 , 38, 5019-5034	5.8	91
831	Manifold regularized multitask feature learning for multimodality disease classification. <i>Human Brain Mapping</i> , 2015 , 36, 489-507	5.8	83
830	Construction of 4D high-definition cortical surface atlases of infants: Methods and applications. <i>Medical Image Analysis</i> , 2015 , 25, 22-36	14.7	86
829	Effective feature learning and fusion of multimodality data using stage-wise deep neural network for dementia diagnosis. <i>Human Brain Mapping</i> , 2019 , 40, 1001-1016	5.8	89
828	Joint Classification and Regression via Deep Multi-Task Multi-Channel Learning for Alzheimer's Disease Diagnosis. <i>IEEE Transactions on Biomedical Engineering</i> , 2019 , 66, 1195-1206	4.6	85
827	Integration of network topological and connectivity properties for neuroimaging classification. <i>IEEE Transactions on Biomedical Engineering</i> , 2014 , 61, 576-89	4.6	86
826	Late Fusion Incomplete Multi-View Clustering. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2019 , 41, 2410-2423	11.5	78
825	Image registration by local histogram matching. <i>Pattern Recognition</i> , 2007 , 40, 1161-1172	7.2	87
824	Hierarchical fusion of features and classifier decisions for Alzheimer's disease diagnosis. <i>Human Brain Mapping</i> , 2014 , 35, 1305-19	5.8	82

823	ABSORB: Atlas Building by Self-organized Registration and Bundling. <i>NeuroImage</i> , 2010 , 51, 1057-70	7.7	85
822	Spatial distribution and longitudinal development of deep cortical sulcal landmarks in infants. <i>NeuroImage</i> , 2014 , 100, 206-18	7.7	84
821	Construction of multi-region-multi-reference atlases for neonatal brain MRI segmentation. <i>NeuroImage</i> , 2010 , 51, 684-93	7.7	84
820	Learning-based deformable registration of MR brain images. <i>IEEE Transactions on Medical Imaging</i> , 2006 , 25, 1145-57	11	84
819	Computational neuroanatomy of baby brains: A review. <i>NeuroImage</i> , 2019 , 185, 906-925	7.7	77
818	3-D Fully Convolutional Networks for Multimodal Isointense Infant Brain Image Segmentation. <i>IEEE Transactions on Cybernetics</i> , 2019 , 49, 1123-1136	8.4	77
817	ASDNet: Attention Based Semi-supervised Deep Networks for Medical Image Segmentation. <i>Lecture Notes in Computer Science</i> , 2018 , 370-378	0.8	76
816	Axonal fiber terminations concentrate on gyri. <i>Cerebral Cortex</i> , 2012 , 22, 2831-9	5	81
815	Deep sparse multi-task learning for feature selection in Alzheimer's disease diagnosis. <i>Brain Structure and Function</i> , 2016 , 221, 2569-87	3.9	74
814	Integration of sparse multi-modality representation and anatomical constraint for isointense infant brain MR image segmentation. <i>NeuroImage</i> , 2014 , 89, 152-64	7.7	79
813	Hierarchical multi-atlas label fusion with multi-scale feature representation and label-specific patch partition. <i>NeuroImage</i> , 2015 , 106, 34-46	7.7	77
812	View-aligned hypergraph learning for Alzheimer's disease diagnosis with incomplete multi-modality data. <i>Medical Image Analysis</i> , 2017 , 36, 123-134	14.7	78
811	Classification of structural images via high-dimensional image warping, robust feature extraction, and SVM. <i>Lecture Notes in Computer Science</i> , 2005 , 8, 1-8	0.8	76
810	Consistent reconstruction of cortical surfaces from longitudinal brain MR images. <i>NeuroImage</i> , 2012 , 59, 3805-20	7.7	77
809	Alzheimer's Disease Diagnosis Using Landmark-Based Features From Longitudinal Structural MR Images. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2017 , 21, 1607-1616	6.7	75
808	HER2, MET and FGFR2 oncogenic driver alterations define distinct molecular segments for targeted therapies in gastric carcinoma. <i>British Journal of Cancer</i> , 2014 , 110, 1169-78	8.3	78
807	A human opsin-related gene that encodes a retinaldehyde-binding protein. <i>Biochemistry</i> , 1994 , 33, 13113-25	7.7	77
806	Neurodegenerative disease diagnosis using incomplete multi-modality data via matrix shrinkage and completion. <i>NeuroImage</i> , 2014 , 91, 386-400	7.7	76

805	Robust deformable-surface-based skull-stripping for large-scale studies. <i>Lecture Notes in Computer Science</i> , 2011 , 14, 635-42	0.8	72
804	Polyp detection during colonoscopy using a regression-based convolutional neural network with a tracker. <i>Pattern Recognition</i> , 2018 , 83, 209-219	7.2	74
803	View-centralized multi-atlas classification for Alzheimer's disease diagnosis. <i>Human Brain Mapping</i> , 2015 , 36, 1847-65	5.8	69
802	Deformable Image Registration based on Similarity-Steered CNN Regression. <i>Lecture Notes in Computer Science</i> , 2017 , 10433, 300-308	0.8	67
801	Topological graph kernel on multiple thresholded functional connectivity networks for mild cognitive impairment classification. <i>Human Brain Mapping</i> , 2014 , 35, 2876-97	5.8	72
800	Statistical representation of high-dimensional deformation fields with application to statistically constrained 3D warping. <i>Medical Image Analysis</i> , 2006 , 10, 740-51	14.7	73
799	Interleaved 3D-CNNs for joint segmentation of small-volume structures in head and neck CT images. <i>Medical Physics</i> , 2018 , 45, 2063-2075	4.2	72
798	Multimodality image registration by maximization of quantitative qualitative measure of mutual information. <i>Pattern Recognition</i> , 2008 , 41, 285-298	7.2	73
797	Deformable registration of brain tumor images via a statistical model of tumor-induced deformation. <i>Medical Image Analysis</i> , 2006 , 10, 752-63	14.7	71
796	Simulating deformations of MR brain images for validation of atlas-based segmentation and registration algorithms. <i>NeuroImage</i> , 2006 , 33, 855-66	7.7	73
795	Anatomical Landmark Based Deep Feature Representation for MR Images in Brain Disease Diagnosis. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2018 , 22, 1476-1485	6.7	67
794	Adaptive Feature Selection Guided Deep Forest for COVID-19 Classification With Chest CT. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020 , 24, 2798-2805	6.7	67
793	Spatiotemporal maturation patterns of murine brain quantified by diffusion tensor MRI and deformation-based morphometry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 6978-83	11.1	71
792	Longitudinal clinical score prediction in Alzheimer's disease with soft-split sparse regression based random forest. <i>Neurobiology of Aging</i> , 2016 , 46, 180-91	5.4	70
791	Automated morphometric study of brain variation in XXY males. <i>NeuroImage</i> , 2004 , 23, 648-53	7.7	70
790	Representation learning: a unified deep learning framework for automatic prostate MR segmentation. <i>Lecture Notes in Computer Science</i> , 2013 , 16, 254-61	0.8	67
789	Strength and Similarity Guided Group-level Brain Functional Network Construction for MCI Diagnosis. <i>Pattern Recognition</i> , 2019 , 88, 421-430	7.2	66
788	Knowledge-guided robust MRI brain extraction for diverse large-scale neuroimaging studies on humans and non-human primates. <i>PLoS ONE</i> , 2014 , 9, e77810	3.6	68

787	ORBIT: a multiresolution framework for deformable registration of brain tumor images. <i>IEEE Transactions on Medical Imaging</i> , 2008 , 27, 1003-17	11	67
786	RABBIT: rapid alignment of brains by building intermediate templates. <i>NeuroImage</i> , 2009 , 47, 1277-87	7.7	69
785	Topographical Information-Based High-Order Functional Connectivity and Its Application in Abnormality Detection for Mild Cognitive Impairment. <i>Journal of Alzheimer's Disease</i> , 2016 , 54, 1095-1112	12.2	66
784	Estimating functional brain networks by incorporating a modularity prior. <i>NeuroImage</i> , 2016 , 141, 399-407	7.7	68
783	. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2000 , 22, 906-913	11.5	68
782	Multi-Channel 3D Deep Feature Learning for Survival Time Prediction of Brain Tumor Patients Using Multi-Modal Neuroimages. <i>Scientific Reports</i> , 2019 , 9, 1103	4.7	69
781	Registering histologic and MR images of prostate for image-based cancer detection. <i>Academic Radiology</i> , 2007 , 14, 1367-81	4.2	68
780	3D Auto-Context-Based Locality Adaptive Multi-Modality GANs for PET Synthesis. <i>IEEE Transactions on Medical Imaging</i> , 2019 , 38, 1328-1339	11	66
779	A Multi-Organ Nucleus Segmentation Challenge. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 1380-1391	11	65
778	Non-diffeomorphic registration of brain tumor images by simulating tissue loss and tumor growth. <i>NeuroImage</i> , 2009 , 46, 762-74	7.7	65
777	Integration of temporal and spatial properties of dynamic connectivity networks for automatic diagnosis of brain disease. <i>Medical Image Analysis</i> , 2018 , 47, 81-94	14.7	62
776	Benchmark on Automatic 6-month-old Infant Brain Segmentation Algorithms: The iSeg-2017 Challenge. <i>IEEE Transactions on Medical Imaging</i> , 2019 ,	11	61
775	Canonical feature selection for joint regression and multi-class identification in Alzheimer's disease diagnosis. <i>Brain Imaging and Behavior</i> , 2016 , 10, 818-28	4	61
774	Hierarchical anatomical brain networks for MCI prediction: revisiting volumetric measures. <i>PLoS ONE</i> , 2011 , 6, e21935	3.6	61
773	Hyper-connectivity of functional networks for brain disease diagnosis. <i>Medical Image Analysis</i> , 2016 , 32, 84-100	14.7	60
772	Diagnosis of autism spectrum disorders using regional and interregional morphological features. <i>Human Brain Mapping</i> , 2014 , 35, 3414-30	5.8	61
771	Sparse patch-based label propagation for accurate prostate localization in CT images. <i>IEEE Transactions on Medical Imaging</i> , 2013 , 32, 419-34	11	59
770	iBEAT: A toolbox for infant brain magnetic resonance image processing. <i>Neuroinformatics</i> , 2013 , 11, 211-25	3.5	62

769	Hybrid High-order Functional Connectivity Networks Using Resting-state Functional MRI for Mild Cognitive Impairment Diagnosis. <i>Scientific Reports</i> , 2017 , 7, 6530	4.7	56
768	Diffusion tensor imaging based network analysis detects alterations of neuroconnectivity in patients with clinically early relapsing-remitting multiple sclerosis. <i>Human Brain Mapping</i> , 2013 , 34, 3376-3391	5.8	61
767	Longitudinally guided level sets for consistent tissue segmentation of neonates. <i>Human Brain Mapping</i> , 2013 , 34, 956-72	5.8	59
766	Sex differences in grey matter atrophy patterns among AD and aMCI patients: results from ADNI. <i>NeuroImage</i> , 2011 , 56, 890-906	7.7	61
765	Inherent Structure-Based Multiview Learning With Multitemplate Feature Representation for Alzheimer's Disease Diagnosis. <i>IEEE Transactions on Biomedical Engineering</i> , 2016 , 63, 1473-82	4.6	59
764	Optimized prostate biopsy via a statistical atlas of cancer spatial distribution. <i>Medical Image Analysis</i> , 2004 , 8, 139-50	14.7	59
763	Multi-channel multi-scale fully convolutional network for 3D perivascular spaces segmentation in 7T MR images. <i>Medical Image Analysis</i> , 2018 , 46, 106-117	14.7	58
762	Convolutional Neural Network for Reconstruction of 7T-like Images from 3T MRI Using Appearance and Anatomical Features. <i>Lecture Notes in Computer Science</i> , 2016 , 39-47	0.8	53
761	Preserving prostaglandin E2 level prevents rejection of implanted allogeneic mesenchymal stem cells and restores postinfarction ventricular function. <i>Circulation</i> , 2013 , 128, S69-78	16.3	58
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234	Joint Sparse and Low-Rank Regularized MultiTask Multi-Linear Regression for Prediction of Infant Brain Development with Incomplete Data. <i>Lecture Notes in Computer Science</i> , 2017 , 10433, 40-48	0.8	3
233	Estimating Reference Shape Model for Personalized Surgical Reconstruction of Craniomaxillofacial Defects. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , 68, 362-373	4.6	3
232	Boundary Coding Representation for Organ Segmentation in Prostate Cancer Radiotherapy. <i>IEEE Transactions on Medical Imaging</i> , 2021 , 40, 310-320	11	1
231	Classification of type 2 diabetes mellitus with or without cognitive impairment from healthy controls using high-order functional connectivity. <i>Human Brain Mapping</i> , 2021 , 42, 4671-4684	5.8	3
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217	Novel Single and Multiple Shell Uniform Sampling Schemes for Diffusion MRI Using Spherical Codes. <i>Lecture Notes in Computer Science</i> , 2015 , 9349, 28-36	0.8	3
216	Parcellation of Infant Surface Atlas Using Developmental Trajectories of Multidimensional Cortical Attributes. <i>Lecture Notes in Computer Science</i> , 2015 , 9351, 543-550	0.8	3
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214	Construction of Neonatal Diffusion Atlases via Spatio-Angular Consistency. <i>Lecture Notes in Computer Science</i> , 2016 , 9993, 9-16	0.8	3
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210	Estimating Reference Bony Shape Model for Personalized Surgical Reconstruction of Posttraumatic Facial Defects. <i>Lecture Notes in Computer Science</i> , 2019 , 11768, 327-335	0.8	3
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203	Asymmetry Spectrum Imaging for Baby Diffusion Tractography. <i>Lecture Notes in Computer Science</i> , 2019 , 11492, 319-331	0.8	2
202	A computational method for longitudinal mapping of orientation-specific expansion of cortical surface in infants. <i>Medical Image Analysis</i> , 2018 , 49, 46-59	14.7	2
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198	Multiple-Atlas Segmentation in Medical Imaging 2016 , 231-257		2
197	Two-Phase Incremental Kernel PCA for Learning Massive or Online Datasets. <i>Complexity</i> , 2019 , 2019, 1-17	1.6	2
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188	Penalized Geodesic Tractography for Mitigating Gyral Bias. <i>Lecture Notes in Computer Science</i> , 2018 , 11072, 12-19	0.8	2
187	Topological Correction of Infant Cortical Surfaces Using Anatomically Constrained U-Net. <i>Lecture Notes in Computer Science</i> , 2018 , 125-133	0.8	2
186	FETAL CORTICAL PARCELLATION BASED ON GROWTH PATTERNS 2018 , 2018, 696-699	1.4	2
185	INFANT BRAIN DEVELOPMENT PREDICTION WITH LATENT PARTIAL MULTI-VIEW REPRESENTATION LEARNING 2018 , 2018, 1048-1051	1.4	2
184	Resolution enhancement of lung 4D-CT data using multiscale interphase iterative nonlocal means. <i>Medical Physics</i> , 2013 , 40, 051916	4.2	2
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182	Automated DNA fiber tracking and measurement 2011 ,		1
181	Identification of breast vascular calcium deposition in digital mammography by linear structure analysis 2012 ,		1
180	Task Decomposition and Synchronization for Semantic Biomedical Image Segmentation. <i>IEEE Transactions on Image Processing</i> , 2020 , 29, 7497-7510	7.5	3
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176	Difficulty-aware hierarchical convolutional neural networks for deformable registration of brain MR images. <i>Medical Image Analysis</i> , 2021 , 67, 101817	14.7	3

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169	Towards a Better Estimation of Functional Brain Network for Mild Cognitive Impairment Identification: A Transfer Learning View		2
168	Automated segmentation of white matter lesions in 3D brain MR images, using multivariate pattern classification		1
167	Registration of brain images with tumors: towards the construction of statistical atlases for therapy planning		2
166	Structure-adaptive B-snake for segmenting complex objects		2
165	Detecting reflection axes by energy minimisation		2
164	A Cascaded Nested Network for 3T Brain MR Image Segmentation Guided by 7T Labeling. <i>Pattern Recognition</i> , 2021 , 124, 108420	7.2	2
163	LONGITUDINAL MULTI-SCALE MAPPING OF INFANT CORTICAL FOLDING USING SPHERICAL WAVELETS 2017 , 2017, 93-96	1.4	2
162	End-to-End Dementia Status Prediction from Brain MRI Using Multi-task Weakly-Supervised Attention Network 2019 , 11767, 158-167		2
161	Reducing magnetic resonance image spacing by learning without ground-truth. <i>Pattern Recognition</i> , 2021 , 120, 108103	7.2	2
160	Cross-Model Attention-Guided Tumor Segmentation for 3D Automated Breast Ultrasound (ABUS) Images. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021 , PP,	6.7	2
159	Structure-Driven Unsupervised Domain Adaptation for Cross-Modality Cardiac Segmentation. <i>IEEE Transactions on Medical Imaging</i> , 2021 , 40, 3604-3616	11	2
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156	Progressive Infant Brain Connectivity Evolution Prediction from Neonatal MRI Using Bidirectionally Supervised Sample Selection. <i>Lecture Notes in Computer Science, 2019, 63-72</i>	0.8	2
155	Automatic Detection of Craniomaxillofacial Anatomical Landmarks on CBCT Images Using 3D Mask R-CNN. <i>Lecture Notes in Computer Science, 2019, 130-137</i>	0.8	2
154	Infant Cognitive Scores Prediction with Multi-stream Attention-Based Temporal Path Signature Features. <i>Lecture Notes in Computer Science, 2020, 12267, 134-144</i>	0.8	1
153	Disentangled Intensive Triplet Autoencoder for Infant Functional Connectome Fingerprinting. <i>Lecture Notes in Computer Science, 2020, 12267, 72-82</i>	0.8	2
152	Unsupervised Learning for Spherical Surface Registration. <i>Lecture Notes in Computer Science, 2020, 12436, 373-383</i>	0.8	2
151	Anatomy-Guided Convolutional Neural Network for Motion Correction in Fetal Brain MRI. <i>Lecture Notes in Computer Science, 2020, 12436, 384-393</i>	0.8	3
150	Attention-Guided Deep Domain Adaptation for Brain Dementia Identification with Multi-site Neuroimaging Data. <i>Lecture Notes in Computer Science, 2020, 31-40</i>	0.8	2
149	Sparsity-Learning-Based Longitudinal MR Image Registration for Early Brain Development. <i>Lecture Notes in Computer Science, 2014, 1-8</i>	0.8	2
148	Space-Frequency Detail-Preserving Construction of Neonatal Brain Atlases. <i>Lecture Notes in Computer Science, 2015, 9350, 255-262</i>	0.8	2
147	Block-Based Statistics for Robust Non-parametric Morphometry. <i>Lecture Notes in Computer Science, 2015, 9467, 62-70</i>	0.8	2
146	Joint Discriminative and Representative Feature Selection for Alzheimer's Disease Diagnosis. <i>Lecture Notes in Computer Science, 2016, 10019, 77-85</i>	0.8	2
145	Automatic Hippocampal Subfield Segmentation from 3T Multi-modality Images. <i>Lecture Notes in Computer Science, 2016, 10019, 229-236</i>	0.8	2
144	Robust Construction of Diffusion MRI Atlases with Correction for Inter-Subject Fiber Dispersion. <i>Mathematics and Visualization, 2016, 2016, 113-121</i>	0.5	2
143	Efficient Groupwise Registration for Brain MRI by Fast Initialization. <i>Lecture Notes in Computer Science, 2017, 10541, 150-158</i>	0.8	2
142	Sparse Patch-Guided Deformation Estimation for Improved Image Registration. <i>Lecture Notes in Computer Science, 2012, 54-62</i>	0.8	2
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139	Probing Brain Micro-architecture by Orientation Distribution Invariant Identification of Diffusion Compartments. <i>Lecture Notes in Computer Science</i> , 2019 , 11766, 547-555	0.8	2
138	Characterizing Non-Gaussian Diffusion in Heterogeneously Oriented Tissue Microenvironments. <i>Lecture Notes in Computer Science</i> , 2019 , 11766, 556-563	0.8	2
137	Interpretable Feature Learning Using Multi-output Takagi-Sugeno-Kang Fuzzy System for Multi-center ASD Diagnosis. <i>Lecture Notes in Computer Science</i> , 2019 , 790-798	0.8	2
136	-Space Upsampling Using - Space Regularization. <i>Lecture Notes in Computer Science</i> , 2017 , 10433, 620-628	0.8	2
135	Learning Pairwise-Similarity Guided Sparse Functional Connectivity Network for MCI Classification 2018 , 2017, 917-922		1
134	CORTICAL FOLDINGPRINTS FOR INFANT IDENTIFICATION 2019 , 2019, 396-399	1.4	1
133	Hierarchical Representation For Ct Prostate Segmentation 2019 ,		1
132	Fast Groupwise Registration Using Multi-Level and Multi-Resolution Graph Shrinkage. <i>Scientific Reports</i> , 2019 , 9, 12703	4.7	1
131	Early-Life Nutrition and Cognitive Development: Imaging Approaches. <i>Nestle Nutrition Institute Workshop Series</i> , 2019 , 90, 121-135	1.7	1
130	O10.3. EARLY BRAIN AND COGNITIVE DEVELOPMENT IN CHILDREN AT RISK FOR SCHIZOPHRENIA. <i>Schizophrenia Bulletin</i> , 2018 , 44, S103-S104	1.2	1
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128	Online updating of context-aware landmark detectors for prostate localization in daily treatment CT images. <i>Medical Physics</i> , 2015 , 42, 2594-606	4.2	1
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126	Cross-Manifold Guidance in Deformable Registration of Brain MR Images. <i>Lecture Notes in Computer Science</i> , 2016 , 415-424	0.8	1
125	Consciousness Level and Recovery Outcome Prediction Using High-Order Brain Functional Connectivity Network. <i>Lecture Notes in Computer Science</i> , 2017 , 10511, 17-24	0.8	1
124	Landmark-Based Alzheimer's Disease Diagnosis Using Longitudinal Structural MR Images. <i>Lecture Notes in Computer Science</i> , 2016 , 10081, 35-45	0.8	1
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122	A NOVEL IMAGE-SPECIFIC TRANSFER APPROACH FOR PROSTATE SEGMENTATION IN MR IMAGES. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , 2018 , 2018, 806-810	1.4	1

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120	Measuring longitudinally dynamic cortex development in infants by reconstruction of consistent cortical surfaces 2013 ,		1
119	Patch-driven neonatal brain MRI segmentation with sparse representation and level sets 2013 ,		1
118	Consistent sulcal parcellation of longitudinal cortical surfaces 2011 ,		1
117	6-MONTH INFANT BRAIN MRI SEGMENTATION GUIDED BY 24-MONTH DATA USING CYCLE-CONSISTENT ADVERSARIAL NETWORKS 2020 , 2020,	1.4	1
116	High-Resolution Breast MRI Reconstruction Using a Deep Convolutional Generative Adversarial Network. <i>Journal of Magnetic Resonance Imaging</i> , 2020 , 52, 1852-1858	5.4	1
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114	Learning Brain Functional Networks with Latent Temporal Dependency for MCI Identification. <i>IEEE Transactions on Biomedical Engineering</i> , 2021 , PP,	4.6	1
113	Collaborative Image Synthesis and Disease Diagnosis for Classification of Neurodegenerative Disorders with Incomplete Multi-modal Neuroimages. <i>Lecture Notes in Computer Science</i> , 2021 , 480-489	0.8	1
112	Domain Generalization for Mammography Detection via Multi-style and Multi-view Contrastive Learning. <i>Lecture Notes in Computer Science</i> , 2021 , 98-108	0.8	1
111	Cascaded Networks for Thyroid Nodule Diagnosis from Ultrasound Images. <i>Lecture Notes in Computer Science</i> , 2021 , 145-154	0.8	1
110	iCOVID: interpretable deep learning framework for early recovery-time prediction of COVID-19 patients. <i>Npj Digital Medicine</i> , 2021 , 4, 124	15.2	1
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108	Morphological classification of medical images using nonlinear support vector machines		1
107	Predicting Genomic Alterations of Phosphatidylinositol-3 Kinase Signaling in Hepatocellular Carcinoma: A Radiogenomics Study Based on Next-Generation Sequencing and Contrast-Enhanced CT.. <i>Annals of Surgical Oncology</i> , 2022 , 1	3	1
106	Deep Learning and Medical Image Analysis for COVID-19 Diagnosis and Prediction.. <i>Annual Review of Biomedical Engineering</i> , 2022 ,	11.6	1
105	Cerebellum Tissue Segmentation with Ensemble Sparse Learning 2017 , 25,	0	1
104	Non-rigid Brain MRI Registration Using Two-stage Deep Perceptive Networks 2018 , 2018,	0	1

103	Altered Connectedness of the Brain Chronnectome During the Progression to Alzheimer's Disease. <i>Neuroinformatics</i> , 2021 , 1	3.1	1
102	Breast Tumor Segmentation in DCE-MRI With Tumor Sensitive Synthesis. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021 , PP,	8.5	1
101	Brain Disease Classification and Progression Using Machine Learning Techniques 2014 , 3-32		1
100	Automated Parcellation of the Cortex Using Structural Connectome Harmonics. <i>Lecture Notes in Computer Science</i> , 2019 , 11766, 475-483	0.8	1
99	Multi-layer Temporal Network Analysis Reveals Increasing Temporal Reachability and Spreadability in the First Two Years of Life. <i>Lecture Notes in Computer Science</i> , 2019 , 665-672	0.8	1
98	Generating Dual-Energy Subtraction Soft-Tissue Images from Chest Radiographs via Bone Edge-Guided GAN. <i>Lecture Notes in Computer Science</i> , 2020 , 678-687	0.8	1
97	A Deep Spatial Context Guided Framework for Infant Brain Subcortical Segmentation. <i>Lecture Notes in Computer Science</i> , 2020 , 12267, 646-656	0.8	1
96	Temporal-Adaptive Graph Convolutional Network for Automated Identification of Major Depressive Disorder Using Resting-State fMRI. <i>Lecture Notes in Computer Science</i> , 2020 , 1-10	0.8	2
95	Two-Stage Mapping-Segmentation Framework for Delineating COVID-19 Infections from Heterogeneous CT Images. <i>Lecture Notes in Computer Science</i> , 2020 , 3-13	0.8	1
94	Denosing Diffusion-Weighted Images Using Grouped Iterative Hard Thresholding of Multi-Channel Framelets. <i>Mathematics and Visualization</i> , 2016 , 2016, 49-59	0.5	1
93	LATEST: Local Adaptive and Sequential Training for Tissue Segmentation of Isointense Infant Brain MR Images. <i>Lecture Notes in Computer Science</i> , 2017 , 2017, 26-34	0.8	1
92	Neighborhood-Correction Algorithm for Classification of Normal and Malignant Cells. <i>Lecture Notes in Bioengineering</i> , 2019 , 73-82	0.8	1
91	Acceleration of High-Resolution 3D MR Fingerprinting via a Graph Convolutional Network. <i>Lecture Notes in Computer Science</i> , 2020 , 158-166	0.8	1
90	Deep Disentangled Hashing with Momentum Triplets for Neuroimage Search. <i>Lecture Notes in Computer Science</i> , 2020 , 12261, 191-201	0.8	1
89	A Computational Framework for Dissociating Development-Related from Individually Variable Flexibility in Regional Modularity Assignment in Early Infancy. <i>Lecture Notes in Computer Science</i> , 2020 , 12267, 13-21	0.8	1
88	Identifying patch-level MSI from histological images of Colorectal Cancer by a Knowledge Distillation Model 2020 ,		1
87	Construction of Spatiotemporal Infant Cortical Surface Functional Templates. <i>Lecture Notes in Computer Science</i> , 2020 , 12267, 238-248	0.8	1
86	A New Metric for Characterizing Dynamic Redundancy of Dense Brain Chronnectome and Its Application to Early Detection of Alzheimer's Disease. <i>Lecture Notes in Computer Science</i> , 2020 , 3-12	0.8	

85	Linking Adolescent Brain MRI to Obesity via Deep Multi-cue Regression Network. <i>Lecture Notes in Computer Science</i> , 2020 , 111-119	0.8	1
84	Characterizing Intra-soma Diffusion with Spherical Mean Spectrum Imaging. <i>Lecture Notes in Computer Science</i> , 2020 , 12267, 354-363	0.8	1
83	LDGAN: Longitudinal-Diagnostic Generative Adversarial Network for Disease Progression Prediction with Missing Structural MRI. <i>Lecture Notes in Computer Science</i> , 2020 , 170-179	0.8	1
82	Domain-Invariant Prior Knowledge Guided Attention Networks for Robust Skull Stripping of Developing Macaque Brains. <i>Lecture Notes in Computer Science</i> , 2020 , 22-32	0.8	1
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80	Do Baby Brain Cortices that Look Alike at Birth Grow Alike During the First Year of Postnatal Development?. <i>Lecture Notes in Computer Science</i> , 2018 , 566-574	0.8	1
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