

# Pew-Thian Yap

## List of Publications by Year in descending order

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425  
papers

26,541  
citations

4641

85  
h-index

8370

147  
g-index

436  
all docs

436  
docs citations

436  
times ranked

18952  
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	HAMMER: hierarchical attribute matching mechanism for elastic registration. IEEE Transactions on Medical Imaging, 2002, 21, 1421-1439.	5.4	953
4	Hierarchical feature representation and multimodal fusion with deep learning for AD/MCI diagnosis. NeuroImage, 2014, 101, 569-582.	2.1	732
5	Image analysis by krawtchouk moments. IEEE Transactions on Image Processing, 2003, 12, 1367-1377.	6.0	545
6	Infant Brain Atlases from Neonates to 1- and 2-Year-Olds. PLoS ONE, 2011, 6, e18746.	1.1	458
7	Medical Image Synthesis with Deep Convolutional Adversarial Networks. IEEE Transactions on Biomedical Engineering, 2018, 65, 2720-2730.	2.5	392
8	Identification of MCI individuals using structural and functional connectivity networks. NeuroImage, 2012, 59, 2045-2056.	2.1	334
9	Landmark-based deep multi-instance learning for brain disease diagnosis. Medical Image Analysis, 2018, 43, 157-168.	7.0	302
10	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
11	Dynamic Development of Regional Cortical Thickness and Surface Area in Early Childhood. Cerebral Cortex, 2015, 25, 2204-2212.	1.6	286
12	The UNC/UMN Baby Connectome Project (BCP): An overview of the study design and protocol development. NeuroImage, 2019, 185, 891-905.	2.1	234
13	Prediction of Alzheimer's disease and mild cognitive impairment using cortical morphological patterns. Human Brain Mapping, 2013, 34, 3411-3425.	1.9	215
14	LRTV: MR Image Super-Resolution With Low-Rank and Total Variation Regularizations. IEEE Transactions on Medical Imaging, 2015, 34, 2459-2466.	5.4	214
15	Scalable High-Performance Image Registration Framework by Unsupervised Deep Feature Representations Learning. IEEE Transactions on Biomedical Engineering, 2016, 63, 1505-1516.	2.5	212
16	Two-Dimensional Polar Harmonic Transforms for Invariant Image Representation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2010, 32, 1259-1270.	9.7	208
17	LINKS: Learning-based multi-source IntegratiON framework for Segmentation of infant brain images. NeuroImage, 2015, 108, 160-172.	2.1	208
18	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

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19	High-order resting-state functional connectivity network for MCI classification. <i>Human Brain Mapping</i> , 2016, 37, 3282-3296.	1.9	204
20	Mapping Region-Specific Longitudinal Cortical Surface Expansion from Birth to 2 Years of Age. <i>Cerebral Cortex</i> , 2013, 23, 2724-2733.	1.6	203
21	Mapping Longitudinal Development of Local Cortical Gyrfication in Infants from Birth to 2 Years of Age. <i>Journal of Neuroscience</i> , 2014, 34, 4228-4238.	1.7	203
22	BIRNet: Brain image registration using dual-supervised fully convolutional networks. <i>Medical Image Analysis</i> , 2019, 54, 193-206.	7.0	199
23	Inter-modality relationship constrained multi-modality multi-task feature selection for Alzheimer's Disease and mild cognitive impairment identification. <i>NeuroImage</i> , 2014, 84, 466-475.	2.1	198
24	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.	2.5	194
25	Enriched white matter connectivity networks for accurate identification of MCI patients. <i>NeuroImage</i> , 2011, 54, 1812-1822.	2.1	191
26	Subspace Regularized Sparse Multitask Learning for Multiclass Neurodegenerative Disease Identification. <i>IEEE Transactions on Biomedical Engineering</i> , 2016, 63, 607-618.	2.5	181
27	Image Analysis Using Hahn Moments. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2007, 29, 2057-2062.	9.7	180
28	Neonatal brain image segmentation in longitudinal MRI studies. <i>NeuroImage</i> , 2010, 49, 391-400.	2.1	177
29	A novel relational regularization feature selection method for joint regression and classification in AD diagnosis. <i>Medical Image Analysis</i> , 2017, 38, 205-214.	7.0	176
30	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.	1.9	171
31	Development Trends of White Matter Connectivity in the First Years of Life. <i>PLoS ONE</i> , 2011, 6, e24678.	1.1	167
32	Relationship Induced Multi-Template Learning for Diagnosis of Alzheimer's Disease and Mild Cognitive Impairment. <i>IEEE Transactions on Medical Imaging</i> , 2016, 35, 1463-1474.	5.4	165
33	Segmentation of neonatal brain MR images using patch-driven level sets. <i>NeuroImage</i> , 2014, 84, 141-158.	2.1	161
34	Group-constrained sparse fMRI connectivity modeling for mild cognitive impairment identification. <i>Brain Structure and Function</i> , 2014, 219, 641-656.	1.2	160
35	Detecting Anatomical Landmarks for Fast Alzheimer's Disease Diagnosis. <i>IEEE Transactions on Medical Imaging</i> , 2016, 35, 2524-2533.	5.4	158
36	Abnormal lung quantification in chest CT images of COVID-19 patients with deep learning and its application to severity prediction. <i>Medical Physics</i> , 2021, 48, 1633-1645.	1.6	154

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37	Sparse temporally dynamic resting-state functional connectivity networks for early MCI identification. <i>Brain Imaging and Behavior</i> , 2016, 10, 342-356.	1.1	153
38	Estimating CT Image from MRI Data Using 3D Fully Convolutional Networks. <i>Lecture Notes in Computer Science</i> , 2016, 2016, 170-178.	1.0	151
39	Multi-task learning for segmentation and classification of tumors in 3D automated breast ultrasound images. <i>Medical Image Analysis</i> , 2021, 70, 101918.	7.0	151
40	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, 9150-9162.	1.7	148
41	Domain Transfer Learning for MCI Conversion Prediction. <i>IEEE Transactions on Biomedical Engineering</i> , 2015, 62, 1805-1817.	2.5	148
42	LABEL: Pediatric brain extraction using learning-based meta-algorithm. <i>NeuroImage</i> , 2012, 62, 1975-1986.	2.1	147
43	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.	6.0	145
44	Spatial normalization of diffusion tensor fields. <i>Magnetic Resonance in Medicine</i> , 2003, 50, 175-182.	1.9	143
45	Deep embedding convolutional neural network for synthesizing CT image from T1-Weighted MR image. <i>Medical Image Analysis</i> , 2018, 47, 31-44.	7.0	137
46	3-D Fully Convolutional Networks for Multimodal Isointense Infant Brain Image Segmentation. <i>IEEE Transactions on Cybernetics</i> , 2019, 49, 1123-1136.	6.2	133
47	Resting-State Multi-Spectrum Functional Connectivity Networks for Identification of MCI Patients. <i>PLoS ONE</i> , 2012, 7, e37828.	1.1	127
48	Computational neuroanatomy of baby brains: A review. <i>NeuroImage</i> , 2019, 185, 906-925.	2.1	125
49	Latent Representation Learning for Alzheimer's Disease Diagnosis With Incomplete Multi-Modality Neuroimaging and Genetic Data. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 2411-2422.	5.4	124
50	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.	7.0	123
51	Multivariate examination of brain abnormality using both structural and functional MRI. <i>NeuroImage</i> , 2007, 36, 1189-1199.	2.1	121
52	Mapping Longitudinal Hemispheric Structural Asymmetries of the Human Cerebral Cortex From Birth to 2 Years of Age. <i>Cerebral Cortex</i> , 2014, 24, 1289-1300.	1.6	121
53	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.	3.9	121
54	Deformable Image Registration Based on Similarity-Steered CNN Regression. <i>Lecture Notes in Computer Science</i> , 2017, 10433, 300-308.	1.0	121

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55	Image registration by local histogram matching. <i>Pattern Recognition</i> , 2007, 40, 1161-1172.	5.1	120
56	Iterative multi-atlas-based multi-image segmentation with tree-based registration. <i>NeuroImage</i> , 2012, 59, 422-430.	2.1	119
57	Altered structural connectivity in neonates at genetic risk for schizophrenia: A combined study using morphological and white matter networks. <i>NeuroImage</i> , 2012, 62, 1622-1633.	2.1	114
58	Manifold regularized multitask feature learning for multimodality disease classification. <i>Human Brain Mapping</i> , 2015, 36, 489-507.	1.9	114
59	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.	3.9	114
60	White matter abnormalities revealed by diffusion tensor imaging in non-demented and demented HIV+ patients. <i>NeuroImage</i> , 2009, 47, 1154-1162.	2.1	113
61	Measuring the dynamic longitudinal cortex development in infants by reconstruction of temporally consistent cortical surfaces. <i>NeuroImage</i> , 2014, 90, 266-279.	2.1	113
62	Hyper-connectivity of functional networks for brain disease diagnosis. <i>Medical Image Analysis</i> , 2016, 32, 84-100.	7.0	113
63	View-aligned hypergraph learning for Alzheimer's disease diagnosis with incomplete multi-modality data. <i>Medical Image Analysis</i> , 2017, 36, 123-134.	7.0	113
64	Construction of 4D high-definition cortical surface atlases of infants: Methods and applications. <i>Medical Image Analysis</i> , 2015, 25, 22-36.	7.0	112
65	Unaffected Family Members and Schizophrenia Patients Share Brain Structure Patterns: A High-Dimensional Pattern Classification Study. <i>Biological Psychiatry</i> , 2008, 63, 118-124.	0.7	111
66	Structural and Maturation Covariance in Early Childhood Brain Development. <i>Cerebral Cortex</i> , 2017, 27, bhw022.	1.6	111
67	SharpMean: Groupwise registration guided by sharp mean image and tree-based registration. <i>NeuroImage</i> , 2011, 56, 1968-1981.	2.1	110
68	CLASSIC: Consistent Longitudinal Alignment and Segmentation for Serial Image Computing. <i>NeuroImage</i> , 2006, 30, 388-399.	2.1	109
69	Identifying Autism Spectrum Disorder With Multi-Site fMRI via Low-Rank Domain Adaptation. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 644-655.	5.4	109
70	Spatial distribution and longitudinal development of deep cortical sulcal landmarks in infants. <i>NeuroImage</i> , 2014, 100, 206-218.	2.1	107
71	A generative probability model of joint label fusion for multi-atlas based brain segmentation. <i>Medical Image Analysis</i> , 2014, 18, 881-890.	7.0	107
72	Strength and similarity guided group-level brain functional network construction for MCI diagnosis. <i>Pattern Recognition</i> , 2019, 88, 421-430.	5.1	101

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73	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
74	ABSORB: Atlas building by self-organized registration and bundling. NeuroImage, 2010, 51, 1057-1070.	2.1	100
75	Adversarial learning for mono- or multi-modal registration. Medical Image Analysis, 2019, 58, 101545.	7.0	100
76	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
77	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
78	Symmetry detection by generalized complex (GC) moments: a close-form solution. IEEE Transactions on Pattern Analysis and Machine Intelligence, 1999, 21, 466-476.	9.7	97
79	Construction of multi-region-multi-reference atlases for neonatal brain MRI segmentation. NeuroImage, 2010, 51, 684-693.	2.1	96
80	Consistent reconstruction of cortical surfaces from longitudinal brain MR images. NeuroImage, 2012, 59, 3805-3820.	2.1	96
81	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
82	Multimodality image registration by maximization of quantitative qualitative measure of mutual information. Pattern Recognition, 2008, 41, 285-298.	5.1	95
83	Learning-based deformable registration of MR brain images. IEEE Transactions on Medical Imaging, 2006, 25, 1145-1157.	5.4	93
84	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
85	Representation Learning: A Unified Deep Learning Framework for Automatic Prostate MR Segmentation. Lecture Notes in Computer Science, 2013, 16, 254-261.	1.0	91
86	View-centralized multi-atlas classification for Alzheimer's disease diagnosis. Human Brain Mapping, 2015, 36, 1847-1865.	1.9	88
87	Weakly Supervised Segmentation of COVID19 Infection with Scribble Annotation on CT Images. Pattern Recognition, 2022, 122, 108341.	5.1	88
88	Deformable registration of brain tumor images via a statistical model of tumor-induced deformation. Medical Image Analysis, 2006, 10, 752-763.	7.0	87
89	Neurodegenerative disease diagnosis using incomplete multi-modality data via matrix shrinkage and completion. NeuroImage, 2014, 91, 386-400.	2.1	87
90	Joint feature-sample selection and robust diagnosis of Parkinson's disease from MRI data. NeuroImage, 2016, 141, 206-219.	2.1	87

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91	Deformable Image Registration Using a Cue-Aware Deep Regression Network. IEEE Transactions on Biomedical Engineering, 2018, 65, 1900-1911.	2.5	86
92	Robust Deformable-Surface-Based Skull-Stripping for Large-Scale Studies. Lecture Notes in Computer Science, 2011, 14, 635-642.	1.0	86
93	Unsupervised Deep Feature Learning for Deformable Registration of MR Brain Images. Lecture Notes in Computer Science, 2013, 16, 649-656.	1.0	85
94	Connectivity strength-weighted sparse group representation-based brain network construction for M&lt;sc>C</sc> classification. Human Brain Mapping, 2017, 38, 2370-2383.	1.9	85
95	Simulating deformations of MR brain images for validation of atlas-based segmentation and registration algorithms. NeuroImage, 2006, 33, 855-866.	2.1	84
96	Statistical representation of high-dimensional deformation fields with application to statistically constrained 3D warping. Medical Image Analysis, 2006, 10, 740-751.	7.0	80
97	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
98	Pelvic Organ Segmentation Using Distinctive Curve Guided Fully Convolutional Networks. IEEE Transactions on Medical Imaging, 2019, 38, 585-595.	5.4	79
99	Non-diffeomorphic registration of brain tumor images by simulating tissue loss and tumor growth. NeuroImage, 2009, 46, 762-774.	2.1	77
100	Diagnosis of autism spectrum disorders using regional and interregional morphological features. Human Brain Mapping, 2014, 35, 3414-3430.	1.9	77
101	Registering Histologic and MR Images of Prostate for Image-based Cancer Detection. Academic Radiology, 2007, 14, 1367-1381.	1.3	75
102	Identification of infants at high-risk for autism spectrum disorder using multiparameter multiscale white matter connectivity networks. Human Brain Mapping, 2015, 36, 4880-4896.	1.9	75
103	RABBIT: Rapid alignment of brains by building intermediate templates. NeuroImage, 2009, 47, 1277-1287.	2.1	74
104	Spatial-Temporal Dependency Modeling and Network Hub Detection for Functional MRI Analysis via Convolutional-Recurrent Network. IEEE Transactions on Biomedical Engineering, 2020, 67, 2241-2252.	2.5	74
105	Deep Multi-Scale Mesh Feature Learning for Automated Labeling of Raw Dental Surfaces From 3D Intraoral Scanners. IEEE Transactions on Medical Imaging, 2020, 39, 2440-2450.	5.4	74
106	Diffusion tensor imaging based network analysis detects alterations of neuroconnectivity in patients with clinically early relapsing&#x2013;remitting multiple sclerosis. Human Brain Mapping, 2013, 34, 3376-3391.	1.9	73
107	Development of cortical anatomical properties from early childhood to early adulthood. NeuroImage, 2013, 76, 216-224.	2.1	72
108	Conversion and time-to-conversion predictions of mild cognitive impairment using low-rank affinity pursuit denoising and matrix completion. Medical Image Analysis, 2018, 45, 68-82.	7.0	72

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109	Sub-Network Kernels for Measuring Similarity of Brain Connectivity Networks in Disease Diagnosis. IEEE Transactions on Image Processing, 2018, 27, 2340-2353.	6.0	72
110	CT male pelvic organ segmentation using fully convolutional networks with boundary sensitive representation. Medical Image Analysis, 2019, 54, 168-178.	7.0	72
111	Hierarchical Anatomical Brain Networks for MCI Prediction: Revisiting Volumetric Measures. PLoS ONE, 2011, 6, e21935.	1.1	72
112	Disrupted Brain Functional Network in Internet Addiction Disorder: A Resting-State Functional Magnetic Resonance Imaging Study. PLoS ONE, 2014, 9, e107306.	1.1	72
113	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.	5.4	71
114	TSegNet: An efficient and accurate tooth segmentation network on 3D dental model. Medical Image Analysis, 2021, 69, 101949.	7.0	69
115	Longitudinally guided level sets for consistent tissue segmentation of neonates. Human Brain Mapping, 2013, 34, 956-972.	1.9	66
116	Multimodal hyper-connectivity of functional networks using functionally-weighted LASSO for MCI classification. Medical Image Analysis, 2019, 52, 80-96.	7.0	66
117	Invariant representation of orientation fields for fingerprint indexing. Pattern Recognition, 2012, 45, 2532-2542.	5.1	65
118	Multi-Domain Transfer Learning for Early Diagnosis of Alzheimer's Disease. Neuroinformatics, 2017, 15, 115-132.	1.5	65
119	Multi-site MRI harmonization via attention-guided deep domain adaptation for brain disorder identification. Medical Image Analysis, 2021, 71, 102076.	7.0	65
120	Diffusion Tensor Image Registration Using Tensor Geometry and Orientation Features. Lecture Notes in Computer Science, 2008, 11, 905-913.	1.0	65
121	Automated bone segmentation from dental CBCT images using patch-based sparse representation and convex optimization. Medical Physics, 2014, 41, 043503.	1.6	64
122	Matrix-Similarity Based Loss Function and Feature Selection for Alzheimer's Disease Diagnosis. , 2014, 2014, 3089-3096.		64
123	Reconstruction of 7T-Like Images From 3T MRI. IEEE Transactions on Medical Imaging, 2016, 35, 2085-2097.	5.4	63
124	Adversarial Similarity Network for Evaluating Image Alignment in Deep Learning Based Registration. Lecture Notes in Computer Science, 2018, 11070, 739-746.	1.0	63
125	Multi-atlas based representations for Alzheimer's disease diagnosis. Human Brain Mapping, 2014, 35, 5052-5070.	1.9	62
126	Deep Learning Based Inter-modality Image Registration Supervised by Intra-modality Similarity. Lecture Notes in Computer Science, 2018, 11046, 55-63.	1.0	62



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127	Weakly Supervised Deep Learning for Brain Disease Prognosis Using MRI and Incomplete Clinical Scores. <i>IEEE Transactions on Cybernetics</i> , 2019, 50, 1-12.	6.2	61
128	Dual-core steered non-rigid registration for multi-modal images via bi-directional image synthesis. <i>Medical Image Analysis</i> , 2017, 41, 18-31.	7.0	60
129	Multi-modal latent space inducing ensemble SVM classifier for early dementia diagnosis with neuroimaging data. <i>Medical Image Analysis</i> , 2020, 60, 101630.	7.0	60
130	Multiscale Adaptive Regression Models for Neuroimaging Data. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , 2011, 73, 559-578.	1.1	59
131	Diagnosis of Autism Spectrum Disorders Using Temporally Distinct Resting-state Functional Connectivity Networks. <i>CNS Neuroscience and Therapeutics</i> , 2016, 22, 212-219.	1.9	59
132	Automated segmentation of dental CBCT image with prior-guided sequential random forests. <i>Medical Physics</i> , 2015, 43, 336-346.	1.6	58
133	Hypergraph learning for identification of COVID-19 with CT imaging. <i>Medical Image Analysis</i> , 2021, 68, 101910.	7.0	56
134	Large-scale dynamic causal modeling of major depressive disorder based on resting-state functional magnetic resonance imaging. <i>Human Brain Mapping</i> , 2020, 41, 865-881.	1.9	52
135	A toolbox for brain network construction and classification (BrainNetClass). <i>Human Brain Mapping</i> , 2020, 41, 2808-2826.	1.9	52
136	Spatially-Constrained Fisher Representation for Brain Disease Identification With Incomplete Multi-Modal Neuroimages. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 2965-2975.	5.4	52
137	Determining Correspondence in 3-D MR Brain Images Using Attribute Vectors as Morphological Signatures of Voxels. <i>IEEE Transactions on Medical Imaging</i> , 2004, 23, 1276-1291.	5.4	51
138	TIMER: Tensor Image Morphing for Elastic Registration. <i>NeuroImage</i> , 2009, 47, 549-563.	2.1	51
139	Longitudinal development of cortical thickness, folding, and fiber density networks in the first 2 years of life. <i>Human Brain Mapping</i> , 2014, 35, 3726-3737.	1.9	51
140	Learning to Rank Atlases for Multiple-Atlas Segmentation. <i>IEEE Transactions on Medical Imaging</i> , 2014, 33, 1939-1953.	5.4	51
141	Task-Induced Pyramid and Attention GAN for Multimodal Brain Image Imputation and Classification in Alzheimer's Disease. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2022, 26, 36-43.	3.9	51
142	A Computational Growth Model for Measuring Dynamic Cortical Development in the First Year of Life. <i>Cerebral Cortex</i> , 2012, 22, 2272-2284.	1.6	49
143	Temporally Constrained Group Sparse Learning for Longitudinal Data Analysis in Alzheimer's Disease. <i>IEEE Transactions on Biomedical Engineering</i> , 2017, 64, 238-249.	2.5	49
144	S-HAMMER: Hierarchical attribute-guided, symmetric diffeomorphic registration for MR brain images. <i>Human Brain Mapping</i> , 2014, 35, 1044-1060.	1.9	47

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145	Automatic Craniomaxillofacial Landmark Digitization via Segmentation-Guided Partially-Joint Regression Forest Model and Multiscale Statistical Features. IEEE Transactions on Biomedical Engineering, 2016, 63, 1820-1829.	2.5	47
146	Building dynamic population graph for accurate correspondence detection. Medical Image Analysis, 2015, 26, 256-267.	7.0	46
147	STRAINet: Spatially Varying Stochastic Residual Adversarial Networks for MRI Pelvic Organ Segmentation. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 1552-1564.	7.2	45
148	Feature-based groupwise registration by hierarchical anatomical correspondence detection. Human Brain Mapping, 2012, 33, 253-271.	1.9	44
149	Multi-Atlas Segmentation of MR Tumor Brain Images Using Low-Rank Based Image Recovery. IEEE Transactions on Medical Imaging, 2018, 37, 2224-2235.	5.4	44
150	Incomplete multi-modal representation learning for Alzheimer's disease diagnosis. Medical Image Analysis, 2021, 69, 101953.	7.0	44
151	Synthesized 7T MRI from 3T MRI via deep learning in spatial and wavelet domains. Medical Image Analysis, 2020, 62, 101663.	7.0	43
152	Brain-Wide Genome-Wide Association Study for Alzheimer's Disease via Joint Projection Learning and Sparse Regression Model. IEEE Transactions on Biomedical Engineering, 2019, 66, 165-175.	2.5	42
153	TPS-HAMMER: Improving HAMMER registration algorithm by soft correspondence matching and thin-plate splines based deformation interpolation. NeuroImage, 2010, 49, 2225-2233.	2.1	41
154	CENTS: Cortical enhanced neonatal tissue segmentation. Human Brain Mapping, 2011, 32, 382-396.	1.9	40
155	Improved image registration by sparse patch-based deformation estimation. NeuroImage, 2015, 105, 257-268.	2.1	40
156	Denoising magnetic resonance images using collaborative non-local means. Neurocomputing, 2016, 177, 215-227.	3.5	39
157	Designing weighted correlation kernels in convolutional neural networks for functional connectivity based brain disease diagnosis. Medical Image Analysis, 2020, 63, 101709.	7.0	39
158	Harmonization of Infant Cortical Thickness Using Surface-to-Surface Cycle-Consistent Adversarial Networks. Lecture Notes in Computer Science, 2019, 11767, 475-483.	1.0	39
159	7T-guided super-resolution of 3T MRI. Medical Physics, 2017, 44, 1661-1677.	1.6	38
160	Hierarchical Patch-Based Sparse Representation – A New Approach for Resolution Enhancement of 4D-CT Lung Data. IEEE Transactions on Medical Imaging, 2012, 31, 1993-2005.	5.4	37
161	Review and Prospect: Artificial Intelligence in Advanced Medical Imaging. Frontiers in Radiology, 2021, 1, .	1.2	37
162	Hierarchical unbiased graph shrinkage (HUGS): A novel groupwise registration for large data set. NeuroImage, 2014, 84, 626-638.	2.1	36

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163	Non-Negative Spherical Deconvolution (NNSD) for estimation of fiber Orientation Distribution Function in single-/multi-shell diffusion MRI. <i>NeuroImage</i> , 2014, 101, 750-764.	2.1	36
164	Region-Adaptive Deformable Registration of CT/MRI Pelvic Images via Learning-Based Image Synthesis. <i>IEEE Transactions on Image Processing</i> , 2018, 27, 3500-3512.	6.0	36
165	Multi-task exclusive relationship learning for alzheimer's disease progression prediction with longitudinal data. <i>Medical Image Analysis</i> , 2019, 53, 111-122.	7.0	36
166	SPHERE: SPHERical Harmonic Elastic REGistration of HARDI data. <i>NeuroImage</i> , 2011, 55, 545-556.	2.1	35
167	Groupwise registration based on hierarchical image clustering and atlas synthesis. <i>Human Brain Mapping</i> , 2010, 31, 1128-1140.	1.9	34
168	Neonatal atlas construction using sparse representation. <i>Human Brain Mapping</i> , 2014, 35, 4663-4677.	1.9	34
169	Intermediate templates guided groupwise registration of diffusion tensor images. <i>NeuroImage</i> , 2011, 54, 928-939.	2.1	33
170	Consistent Spatial-Temporal Longitudinal Atlas Construction for Developing Infant Brains. <i>IEEE Transactions on Medical Imaging</i> , 2016, 35, 2568-2577.	5.4	33
171	Identification of progressive mild cognitive impairment patients using incomplete longitudinal MRI scans. <i>Brain Structure and Function</i> , 2016, 221, 3979-3995.	1.2	33
172	A review of deep learning-based three-dimensional medical image registration methods. <i>Quantitative Imaging in Medicine and Surgery</i> , 2021, 11, 4895-4916.	1.1	33
173	Multiscale adaptive generalized estimating equations for longitudinal neuroimaging data. <i>NeuroImage</i> , 2013, 72, 91-105.	2.1	32
174	Sparse Multivariate Autoregressive Modeling for Mild Cognitive Impairment Classification. <i>Neuroinformatics</i> , 2014, 12, 455-469.	1.5	32
175	Diverse data augmentation for learning image segmentation with cross-modality annotations. <i>Medical Image Analysis</i> , 2021, 71, 102060.	7.0	32
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