

# Pew-Thian Yap

## List of Publications by Citations

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436  
ext. papers

22,484  
ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
4 <sup>19</sup>	Deep Learning in Medical Image Analysis. <i>Annual Review of Biomedical Engineering</i> , <b>2017</b> , 19, 221-248	12	1778
4 <sup>18</sup>	Multimodal classification of Alzheimer's disease and mild cognitive impairment. <i>NeuroImage</i> , <b>2011</b> , 55, 856-67	7.9	837
4 <sup>17</sup>	HAMMER: hierarchical attribute matching mechanism for elastic registration. <i>IEEE Transactions on Medical Imaging</i> , <b>2002</b> , 21, 1421-39	11.7	771
4 <sup>16</sup>	Hierarchical feature representation and multimodal fusion with deep learning for AD/MCI diagnosis. <i>NeuroImage</i> , <b>2014</b> , 101, 569-82	7.9	536
4 <sup>15</sup>	Image analysis by Krawtchouk moments. <i>IEEE Transactions on Image Processing</i> , <b>2003</b> , 12, 1367-77	8.7	421
4 <sup>14</sup>	Infant brain atlases from neonates to 1- and 2-year-olds. <i>PLoS ONE</i> , <b>2011</b> , 6, e18746	3.7	328
4 <sup>13</sup>	Identification of MCI individuals using structural and functional connectivity networks. <i>NeuroImage</i> , <b>2012</b> , 59, 2045-56	7.9	291
4 <sup>12</sup>	Medical Image Synthesis with Deep Convolutional Adversarial Networks. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2018</b> , 65, 2720-2730	5	231
4 <sup>11</sup>	Dynamic Development of Regional Cortical Thickness and Surface Area in Early Childhood. <i>Cerebral Cortex</i> , <b>2015</b> , 25, 2204-12	5.1	200
4 <sup>10</sup>	Landmark-based deep multi-instance learning for brain disease diagnosis. <i>Medical Image Analysis</i> , <b>2018</b> , 43, 157-168	15.4	183
4 <sup>09</sup>	LINKS: learning-based multi-source IntegratiON frameworkK for Segmentation of infant brain images. <i>NeuroImage</i> , <b>2015</b> , 108, 160-72	7.9	168
4 <sup>08</sup>	Enriched white matter connectivity networks for accurate identification of MCI patients. <i>NeuroImage</i> , <b>2011</b> , 54, 1812-22	7.9	168
4 <sup>07</sup>	Scalable High-Performance Image Registration Framework by Unsupervised Deep Feature Representations Learning. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2016</b> , 63, 1505-16	5	166
4 <sup>06</sup>	Mapping longitudinal development of local cortical gyrification in infants from birth to 2 years of age. <i>Journal of Neuroscience</i> , <b>2014</b> , 34, 4228-38	6.6	164
4 <sup>05</sup>	Prediction of Alzheimer's disease and mild cognitive impairment using cortical morphological patterns. <i>Human Brain Mapping</i> , <b>2013</b> , 34, 3411-25	5.9	161
4 <sup>04</sup>	Estimating CT Image From MRI Data Using Structured Random Forest and Auto-Context Model. <i>IEEE Transactions on Medical Imaging</i> , <b>2016</b> , 35, 174-83	11.7	155
4 <sup>03</sup>	Mapping region-specific longitudinal cortical surface expansion from birth to 2 years of age. <i>Cerebral Cortex</i> , <b>2013</b> , 23, 2724-33	5.1	155

402	Neonatal brain image segmentation in longitudinal MRI studies. <i>NeuroImage</i> , <b>2010</b> , 49, 391-400	7.9	155
401	Two-dimensional polar harmonic transforms for invariant image representation. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2010</b> , 32, 1259-70	13.3	154
400	Inter-modality relationship constrained multi-modality multi-task feature selection for Alzheimer's Disease and mild cognitive impairment identification. <i>NeuroImage</i> , <b>2014</b> , 84, 466-75	7.9	150
399	Subspace Regularized Sparse Multitask Learning for Multiclass Neurodegenerative Disease Identification. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2016</b> , 63, 607-18	5	144
398	High-order resting-state functional connectivity network for MCI classification. <i>Human Brain Mapping</i> , <b>2016</b> , 37, 3282-96	5.9	144
397	Development trends of white matter connectivity in the first years of life. <i>PLoS ONE</i> , <b>2011</b> , 6, e24678	3.7	142
396	The UNC/UMN Baby Connectome Project (BCP): An overview of the study design and protocol development. <i>NeuroImage</i> , <b>2019</b> , 185, 891-905	7.9	140
395	A novel relational regularization feature selection method for joint regression and classification in AD diagnosis. <i>Medical Image Analysis</i> , <b>2017</b> , 38, 205-214	15.4	137
394	Segmentation of neonatal brain MR images using patch-driven level sets. <i>NeuroImage</i> , <b>2014</b> , 84, 141-58	7.9	136
393	LABEL: pediatric brain extraction using learning-based meta-algorithm. <i>NeuroImage</i> , <b>2012</b> , 62, 1975-86	7.9	136
392	Image analysis using hahn moments. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2007</b> , 29, 2057-62	13.3	136
391	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> , <b>2020</b> , 42, 880-893	13.3	136
390	LRTV: MR Image Super-Resolution With Low-Rank and Total Variation Regularizations. <i>IEEE Transactions on Medical Imaging</i> , <b>2015</b> , 34, 2459-66	11.7	135
389	Spatial normalization of diffusion tensor fields. <i>Magnetic Resonance in Medicine</i> , <b>2003</b> , 50, 175-82	4.4	126
388	Relationship Induced Multi-Template Learning for Diagnosis of Alzheimer's Disease and Mild Cognitive Impairment. <i>IEEE Transactions on Medical Imaging</i> , <b>2016</b> , 35, 1463-74	11.7	120
387	Estimating CT Image from MRI Data Using 3D Fully Convolutional Networks. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 2016, 170-178	0.9	115
386	Group-constrained sparse fMRI connectivity modeling for mild cognitive impairment identification. <i>Brain Structure and Function</i> , <b>2014</b> , 219, 641-56	4	113
385	Sparse temporally dynamic resting-state functional connectivity networks for early MCI identification. <i>Brain Imaging and Behavior</i> , <b>2016</b> , 10, 342-56	4.1	110

384	Spatial Patterns, Longitudinal Development, and Hemispheric Asymmetries of Cortical Thickness in Infants from Birth to 2 Years of Age. <i>Journal of Neuroscience</i> , <b>2015</b> , 35, 9150-62	6.6	107
383	Detecting Anatomical Landmarks for Fast Alzheimer's Disease Diagnosis. <i>IEEE Transactions on Medical Imaging</i> , <b>2016</b> , 35, 2524-2533	11.7	105
382	BIRNet: Brain image registration using dual-supervised fully convolutional networks. <i>Medical Image Analysis</i> , <b>2019</b> , 54, 193-206	15.4	102
381	Unaffected family members and schizophrenia patients share brain structure patterns: a high-dimensional pattern classification study. <i>Biological Psychiatry</i> , <b>2008</b> , 63, 118-24	7.9	102
380	Domain Transfer Learning for MCI Conversion Prediction. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2015</b> , 62, 1805-1817	5	101
379	Detecting Anatomical Landmarks From Limited Medical Imaging Data Using Two-Stage Task-Oriented Deep Neural Networks. <i>IEEE Transactions on Image Processing</i> , <b>2017</b> , 26, 4753-4764	8.7	99
378	SharpMean: groupwise registration guided by sharp mean image and tree-based registration. <i>NeuroImage</i> , <b>2011</b> , 56, 1968-81	7.9	99
377	Resting-state multi-spectrum functional connectivity networks for identification of MCI patients. <i>PLoS ONE</i> , <b>2012</b> , 7, e37828	3.7	99
376	Altered structural connectivity in neonates at genetic risk for schizophrenia: a combined study using morphological and white matter networks. <i>NeuroImage</i> , <b>2012</b> , 62, 1622-33	7.9	98
375	White matter abnormalities revealed by diffusion tensor imaging in non-demented and demented HIV+ patients. <i>NeuroImage</i> , <b>2009</b> , 47, 1154-62	7.9	97
374	CLASSIC: consistent longitudinal alignment and segmentation for serial image computing. <i>NeuroImage</i> , <b>2006</b> , 30, 388-99	7.9	97
373	Mapping longitudinal hemispheric structural asymmetries of the human cerebral cortex from birth to 2 years of age. <i>Cerebral Cortex</i> , <b>2014</b> , 24, 1289-300	5.1	96
372	Multivariate examination of brain abnormality using both structural and functional MRI. <i>NeuroImage</i> , <b>2007</b> , 36, 1189-99	7.9	96
371	Effective feature learning and fusion of multimodality data using stage-wise deep neural network for dementia diagnosis. <i>Human Brain Mapping</i> , <b>2019</b> , 40, 1001-1016	5.9	96
370	Iterative multi-atlas-based multi-image segmentation with tree-based registration. <i>NeuroImage</i> , <b>2012</b> , 59, 422-30	7.9	95
369	Deep embedding convolutional neural network for synthesizing CT image from T1-Weighted MR image. <i>Medical Image Analysis</i> , <b>2018</b> , 47, 31-44	15.4	93
368	A generative probability model of joint label fusion for multi-atlas based brain segmentation. <i>Medical Image Analysis</i> , <b>2014</b> , 18, 881-90	15.4	93
367	Joint Classification and Regression via Deep Multi-Task Multi-Channel Learning for Alzheimer's Disease Diagnosis. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2019</b> , 66, 1195-1206	5	93

366	Measuring the dynamic longitudinal cortex development in infants by reconstruction of temporally consistent cortical surfaces. <i>NeuroImage</i> , <b>2014</b> , 90, 266-79	7.9	92
365	Structural and Maturational Covariance in Early Childhood Brain Development. <i>Cerebral Cortex</i> , <b>2017</b> , 27, 1795-1807	5.1	91
364	Manifold regularized multitask feature learning for multimodality disease classification. <i>Human Brain Mapping</i> , <b>2015</b> , 36, 489-507	5.9	90
363	Construction of 4D high-definition cortical surface atlases of infants: Methods and applications. <i>Medical Image Analysis</i> , <b>2015</b> , 25, 22-36	15.4	90
362	Image registration by local histogram matching. <i>Pattern Recognition</i> , <b>2007</b> , 40, 1161-1172	7.7	87
361	ABSORB: Atlas Building by Self-organized Registration and Bundling. <i>NeuroImage</i> , <b>2010</b> , 51, 1057-70	7.9	86
360	Learning-based deformable registration of MR brain images. <i>IEEE Transactions on Medical Imaging</i> , <b>2006</b> , 25, 1145-57	11.7	85
359	3-D Fully Convolutional Networks for Multimodal Isointense Infant Brain Image Segmentation. <i>IEEE Transactions on Cybernetics</i> , <b>2019</b> , 49, 1123-1136	10.2	85
358	Construction of multi-region-multi-reference atlases for neonatal brain MRI segmentation. <i>NeuroImage</i> , <b>2010</b> , 51, 684-93	7.9	84
357	Spatial distribution and longitudinal development of deep cortical sulcal landmarks in infants. <i>NeuroImage</i> , <b>2014</b> , 100, 206-18	7.9	83
356	View-aligned hypergraph learning for Alzheimer's disease diagnosis with incomplete multi-modality data. <i>Medical Image Analysis</i> , <b>2017</b> , 36, 123-134	15.4	82
355	Computational neuroanatomy of baby brains: A review. <i>NeuroImage</i> , <b>2019</b> , 185, 906-925	7.9	82
354	Alzheimer's Disease Diagnosis Using Landmark-Based Features From Longitudinal Structural MR Images. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2017</b> , 21, 1607-1616	7.2	81
353	Consistent reconstruction of cortical surfaces from longitudinal brain MR images. <i>NeuroImage</i> , <b>2012</b> , 59, 3805-20	7.9	79
352	Deformable Image Registration based on Similarity-Steered CNN Regression. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 10433, 300-308	0.9	78
351	Neurodegenerative disease diagnosis using incomplete multi-modality data via matrix shrinkage and completion. <i>NeuroImage</i> , <b>2014</b> , 91, 386-400	7.9	76
350	Robust deformable-surface-based skull-stripping for large-scale studies. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 14, 635-42	0.9	76
349	Symmetry detection by generalized complex (GC) moments: a close-form solution. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>1999</b> , 21, 466-476	13.3	75

348	View-centralized multi-atlas classification for Alzheimer's disease diagnosis. <i>Human Brain Mapping</i> , <b>2015</b> , 36, 1847-65	5.9	74
347	Multimodality image registration by maximization of quantitative qualitative measure of mutual information. <i>Pattern Recognition</i> , <b>2008</b> , 41, 285-298	7.7	74
346	Statistical representation of high-dimensional deformation fields with application to statistically constrained 3D warping. <i>Medical Image Analysis</i> , <b>2006</b> , 10, 740-51	15.4	74
345	Simulating deformations of MR brain images for validation of atlas-based segmentation and registration algorithms. <i>NeuroImage</i> , <b>2006</b> , 33, 855-66	7.9	73
344	Deformable registration of brain tumor images via a statistical model of tumor-induced deformation. <i>Medical Image Analysis</i> , <b>2006</b> , 10, 752-63	15.4	73
343	Representation learning: a unified deep learning framework for automatic prostate MR segmentation. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 16, 254-61	0.9	73
342	Anatomical Landmark Based Deep Feature Representation for MR Images in Brain Disease Diagnosis. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2018</b> , 22, 1476-1485	7.2	72
341	. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2000</b> , 22, 906-913	13.3	71
340	Longitudinal clinical score prediction in Alzheimer's disease with soft-split sparse regression based random forest. <i>Neurobiology of Aging</i> , <b>2016</b> , 46, 180-91	5.6	70
339	Strength and Similarity Guided Group-level Brain Functional Network Construction for MCI Diagnosis. <i>Pattern Recognition</i> , <b>2019</b> , 88, 421-430	7.7	70
338	Knowledge-guided robust MRI brain extraction for diverse large-scale neuroimaging studies on humans and non-human primates. <i>PLoS ONE</i> , <b>2014</b> , 9, e77810	3.7	69
337	RABBIT: rapid alignment of brains by building intermediate templates. <i>NeuroImage</i> , <b>2009</b> , 47, 1277-87	7.9	69
336	Registering histologic and MR images of prostate for image-based cancer detection. <i>Academic Radiology</i> , <b>2007</b> , 14, 1367-81	4.3	67
335	Integration of temporal and spatial properties of dynamic connectivity networks for automatic diagnosis of brain disease. <i>Medical Image Analysis</i> , <b>2018</b> , 47, 81-94	15.4	66
334	Hyper-connectivity of functional networks for brain disease diagnosis. <i>Medical Image Analysis</i> , <b>2016</b> , 32, 84-100	15.4	65
333	Non-diffeomorphic registration of brain tumor images by simulating tissue loss and tumor growth. <i>NeuroImage</i> , <b>2009</b> , 46, 762-74	7.9	65
332	Diagnosis of autism spectrum disorders using regional and interregional morphological features. <i>Human Brain Mapping</i> , <b>2014</b> , 35, 3414-30	5.9	64
331	Hierarchical anatomical brain networks for MCI prediction: revisiting volumetric measures. <i>PLoS ONE</i> , <b>2011</b> , 6, e21935	3.7	64

330	Inherent Structure-Based Multiview Learning With Multitemplate Feature Representation for Alzheimer's Disease Diagnosis. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2016</b> , 63, 1473-82	5	64
329	Abnormal lung quantification in chest CT images of COVID-19 patients with deep learning and its application to severity prediction. <i>Medical Physics</i> , <b>2021</b> , 48, 1633-1645	4.4	62
328	Longitudinally guided level sets for consistent tissue segmentation of neonates. <i>Human Brain Mapping</i> , <b>2013</b> , 34, 956-72	5.9	61
327	Diffusion tensor imaging based network analysis detects alterations of neuroconnectivity in patients with clinically early relapsing-remitting multiple sclerosis. <i>Human Brain Mapping</i> , <b>2013</b> , 34, 3376-91	5.9	61
326	Identification of infants at high-risk for autism spectrum disorder using multiparameter multiscale white matter connectivity networks. <i>Human Brain Mapping</i> , <b>2015</b> , 36, 4880-96	5.9	58
325	Multi-channel multi-scale fully convolutional network for 3D perivascular spaces segmentation in 7T MR images. <i>Medical Image Analysis</i> , <b>2018</b> , 46, 106-117	15.4	58
324	Unsupervised deep feature learning for deformable registration of MR brain images. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 16, 649-56	0.9	58
323	Joint feature-sample selection and robust diagnosis of Parkinson's disease from MRI data. <i>NeuroImage</i> , <b>2016</b> , 141, 206-219	7.9	57
322	Disrupted brain functional network in internet addiction disorder: a resting-state functional magnetic resonance imaging study. <i>PLoS ONE</i> , <b>2014</b> , 9, e107306	3.7	56
321	Diffusion tensor image registration using tensor geometry and orientation features. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 11, 905-13	0.9	56
320	Identifying Autism Spectrum Disorder With Multi-Site fMRI via Low-Rank Domain Adaptation. <i>IEEE Transactions on Medical Imaging</i> , <b>2020</b> , 39, 644-655	11.7	56
319	Latent Representation Learning for Alzheimer's Disease Diagnosis With Incomplete Multi-Modality Neuroimaging and Genetic Data. <i>IEEE Transactions on Medical Imaging</i> , <b>2019</b> , 38, 2411-2422	11.7	55
318	Pelvic Organ Segmentation Using Distinctive Curve Guided Fully Convolutional Networks. <i>IEEE Transactions on Medical Imaging</i> , <b>2019</b> , 38, 585-595	11.7	55
317	Connectivity strength-weighted sparse group representation-based brain network construction for MCI classification. <i>Human Brain Mapping</i> , <b>2017</b> , 38, 2370-2383	5.9	53
316	Multi-atlas based representations for Alzheimer's disease diagnosis. <i>Human Brain Mapping</i> , <b>2014</b> , 35, 5052-70	5.9	53
315	Development of cortical anatomical properties from early childhood to early adulthood. <i>NeuroImage</i> , <b>2013</b> , 76, 216-24	7.9	53
314	Automated bone segmentation from dental CBCT images using patch-based sparse representation and convex optimization. <i>Medical Physics</i> , <b>2014</b> , 41, 043503	4.4	52
313	Reconstruction of 7T-Like Images From 3T MRI. <i>IEEE Transactions on Medical Imaging</i> , <b>2016</b> , 35, 2085-97	11.7	52

312	Deformable Image Registration Using a Cue-Aware Deep Regression Network. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2018</b> , 65, 1900-1911	5	49
311	Matrix-Similarity Based Loss Function and Feature Selection for Alzheimer's Disease Diagnosis. <i>Proceedings of the IEEE Computer Society Conference on Computer Vision and Pattern Recognition</i> , <b>2014</b> , 2014, 3089-3096	6	49
310	Multiscale Adaptive Regression Models for Neuroimaging Data. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , <b>2011</b> , 73, 559-578	3.9	49
309	Invariant representation of orientation fields for fingerprint indexing. <i>Pattern Recognition</i> , <b>2012</b> , 45, 2532-2542	7.7	48
308	Adversarial learning for mono- or multi-modal registration. <i>Medical Image Analysis</i> , <b>2019</b> , 58, 101545	15.4	47
307	A computational growth model for measuring dynamic cortical development in the first year of life. <i>Cerebral Cortex</i> , <b>2012</b> , 22, 2272-84	5.1	47
306	CT male pelvic organ segmentation using fully convolutional networks with boundary sensitive representation. <i>Medical Image Analysis</i> , <b>2019</b> , 54, 168-178	15.4	46
305	TIMER: tensor image morphing for elastic registration. <i>NeuroImage</i> , <b>2009</b> , 47, 549-63	7.9	45
304	Diagnosis of Autism Spectrum Disorders Using Temporally Distinct Resting-State Functional Connectivity Networks. <i>CNS Neuroscience and Therapeutics</i> , <b>2016</b> , 22, 212-9	6.8	45
303	Dual-core steered non-rigid registration for multi-modal images via bi-directional image synthesis. <i>Medical Image Analysis</i> , <b>2017</b> , 41, 18-31	15.4	44
302	Adversarial Similarity Network for Evaluating Image Alignment in Deep Learning based Registration. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 11070, 739-746	0.9	44
301	Multi-Domain Transfer Learning for Early Diagnosis of Alzheimer's Disease. <i>Neuroinformatics</i> , <b>2017</b> , 15, 115-132	3.2	43
300	Sub-Network Kernels for Measuring Similarity of Brain Connectivity Networks in Disease Diagnosis. <i>IEEE Transactions on Image Processing</i> , <b>2018</b> , 27, 2340-2353	8.7	42
299	Determining correspondence in 3-D MR brain images using attribute vectors as morphological signatures of voxels. <i>IEEE Transactions on Medical Imaging</i> , <b>2004</b> , 23, 1276-91	11.7	42
298	Learning to rank atlases for multiple-atlas segmentation. <i>IEEE Transactions on Medical Imaging</i> , <b>2014</b> , 33, 1939-53	11.7	41
297	Longitudinal development of cortical thickness, folding, and fiber density networks in the first 2 years of life. <i>Human Brain Mapping</i> , <b>2014</b> , 35, 3726-37	5.9	39
296	Deep Learning of Static and Dynamic Brain Functional Networks for Early MCI Detection. <i>IEEE Transactions on Medical Imaging</i> , <b>2020</b> , 39, 478-487	11.7	39
295	Feature-based groupwise registration by hierarchical anatomical correspondence detection. <i>Human Brain Mapping</i> , <b>2012</b> , 33, 253-71	5.9	38



294	Building dynamic population graph for accurate correspondence detection. <i>Medical Image Analysis</i> , <b>2015</b> , 26, 256-67	15.4	38
293	TPS-HAMMER: improving HAMMER registration algorithm by soft correspondence matching and thin-plate splines based deformation interpolation. <i>NeuroImage</i> , <b>2010</b> , 49, 2225-33	7.9	38
292	Temporally Constrained Group Sparse Learning for Longitudinal Data Analysis in Alzheimer's Disease. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2017</b> , 64, 238-249	5	37
291	S-HAMMER: hierarchical attribute-guided, symmetric diffeomorphic registration for MR brain images. <i>Human Brain Mapping</i> , <b>2014</b> , 35, 1044-60	5.9	37
290	Multi-task learning for segmentation and classification of tumors in 3D automated breast ultrasound images. <i>Medical Image Analysis</i> , <b>2021</b> , 70, 101918	15.4	37
289	Brain-Wide Genome-Wide Association Study for Alzheimer's Disease via Joint Projection Learning and Sparse Regression Model. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2019</b> , 66, 165-175	5	36
288	CENTS: cortical enhanced neonatal tissue segmentation. <i>Human Brain Mapping</i> , <b>2011</b> , 32, 382-96	5.9	34
287	Multimodal hyper-connectivity of functional networks using functionally-weighted LASSO for MCI classification. <i>Medical Image Analysis</i> , <b>2019</b> , 52, 80-96	15.4	34
286	Deep Learning based Inter-Modality Image Registration Supervised by Intra-Modality Similarity. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 11046, 55-63	0.9	34
285	Conversion and time-to-conversion predictions of mild cognitive impairment using low-rank affinity pursuit denoising and matrix completion. <i>Medical Image Analysis</i> , <b>2018</b> , 45, 68-82	15.4	33
284	Automated segmentation of dental CBCT image with prior-guided sequential random forests. <i>Medical Physics</i> , <b>2016</b> , 43, 336	4.4	33
283	Automatic Craniomaxillofacial Landmark Digitization via Segmentation-Guided Partially-Joint Regression Forest Model and Multiscale Statistical Features. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2016</b> , 63, 1820-1829	5	32
282	Non-Negative Spherical Deconvolution (NNSD) for estimation of fiber Orientation Distribution Function in single-/multi-shell diffusion MRI. <i>NeuroImage</i> , <b>2014</b> , 101, 750-64	7.9	32
281	Neonatal atlas construction using sparse representation. <i>Human Brain Mapping</i> , <b>2014</b> , 35, 4663-77	5.9	32
280	Groupwise registration based on hierarchical image clustering and atlas synthesis. <i>Human Brain Mapping</i> , <b>2010</b> , 31, 1128-40	5.9	32
279	Identification of progressive mild cognitive impairment patients using incomplete longitudinal MRI scans. <i>Brain Structure and Function</i> , <b>2016</b> , 221, 3979-3995	4	31
278	Hierarchical patch-based sparse representation--a new approach for resolution enhancement of 4D-CT lung data. <i>IEEE Transactions on Medical Imaging</i> , <b>2012</b> , 31, 1993-2005	11.7	31
277	Improved image registration by sparse patch-based deformation estimation. <i>NeuroImage</i> , <b>2015</b> , 105, 257-68	7.9	30

276	Denoising Magnetic Resonance Images Using Collaborative Non-Local Means. <i>Neurocomputing</i> , <b>2016</b> , 177, 215-227	5.4	30
275	Multiscale adaptive generalized estimating equations for longitudinal neuroimaging data. <i>NeuroImage</i> , <b>2013</b> , 72, 91-105	7.9	30
274	Spatial-Temporal Dependency Modeling and Network Hub Detection for Functional MRI Analysis via Convolutional-Recurrent Network. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2020</b> , 67, 2241-2252	5	30
273	Hierarchical unbiased graph shrinkage (HUGS): a novel groupwise registration for large data set. <i>NeuroImage</i> , <b>2014</b> , 84, 626-38	7.9	29
272	Intermediate templates guided groupwise registration of diffusion tensor images. <i>NeuroImage</i> , <b>2011</b> , 54, 928-39	7.9	29
271	7T-guided super-resolution of 3T MRI. <i>Medical Physics</i> , <b>2017</b> , 44, 1661-1677	4.4	28
270	Deep Multi-Scale Mesh Feature Learning for Automated Labeling of Raw Dental Surfaces From 3D Intraoral Scanners. <i>IEEE Transactions on Medical Imaging</i> , <b>2020</b> , 39, 2440-2450	11.7	28
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119	DeepBundle: Fiber Bundle Parcellation with Graph Convolution Neural Networks. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 11849, 88-95	0.9	4
118	Tract Dictionary Learning for Fast and Robust Recognition of Fiber Bundles. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 12267, 251-259	0.9	4
117	Large deformation diffeomorphic registration of diffusion-weighted images. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 15, 171-8	0.9	4
116	Longitudinal Guided Super-Resolution Reconstruction of Neonatal Brain MR Images. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 8682, 67-76	0.9	4
115	A Hybrid Multishape Learning Framework for Longitudinal Prediction of Cortical Surfaces and Fiber Tracts Using Neonatal Data. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 9900, 210-218	0.9	4

114	Learning-based 3T brain MRI segmentation with guidance from 7T MRI labeling. <i>Medical Physics</i> , <b>2016</b> , 43, 6588	4.4	4
113	Angular Upsampling in Infant Diffusion MRI Using Neighborhood Matching in - Space. <i>Frontiers in Neuroinformatics</i> , <b>2018</b> , 12, 57	3.9	4
112	A Multi-Tissue Global Estimation Framework for Asymmetric Fiber Orientation Distributions. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 11072, 45-52	0.9	4
111	SkullEngine: A Multi-Stage CNN Framework for Collaborative CBCT Image Segmentation and Landmark Detection.. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 12966, 606-614	0.9	4
110	Multi-channel framelet denoising of diffusion-weighted images. <i>PLoS ONE</i> , <b>2019</b> , 14, e0211621	3.7	3
109	Multi-Atlas Brain Parcellation Using Squeeze-and-Excitation Fully Convolutional Networks. <i>IEEE Transactions on Image Processing</i> , <b>2020</b> , 29, 6864-6872	8.7	3
108	Graph-Based Deep Learning for Prediction of Longitudinal Infant Diffusion MRI Data. <i>Mathematics and Visualization</i> , <b>2019</b> , 2019, 133-141	0.6	3
107	Multi-contrast diffusion tensor image registration with structural MRI <b>2012</b> ,		3
106	APPLICATION OF POLAR HARMONIC TRANSFORMS TO FINGERPRINT CLASSIFICATION. <i>Series in Computer Vision</i> , <b>2011</b> , 297-311		3
105	Estimating Reference Bony Shape Model for Personalized Surgical Reconstruction of Posttraumatic Facial Defects. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 11768, 327-335	0.9	3
104	Reconstructing High-Quality Diffusion MRI Data from Orthogonal Slice-Undersampled Data Using Graph Convolutional Neural Networks. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 11766, 529-537	0.9	3
103	Anatomical-Landmark-Based Deep Learning for Alzheimer's Disease Diagnosis with Structural Magnetic Resonance Imaging. <i>Intelligent Systems Reference Library</i> , <b>2020</b> , 127-147	0.8	3
102	Pair-Wise and Group-Wise Deformation Consistency in Deep Registration Network. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 171-180	0.9	3
101	Asymmetrical Multi-task Attention U-Net for the Segmentation of Prostate Bed in CT Image. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 12264, 470-479	0.9	3
100	Diffusion Compartmentalization Using Response Function Groups with Cardinality Penalization. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 9349, 183-190	0.9	3
99	Novel Single and Multiple Shell Uniform Sampling Schemes for Diffusion MRI Using Spherical Codes. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 9349, 28-36	0.9	3
98	Super-Resolution Reconstruction of Diffusion-Weighted Images using 4D Low-Rank and Total Variation. <i>Mathematics and Visualization</i> , <b>2015</b> , 2015, 15-25	0.6	3
97	Construction of Neonatal Diffusion Atlases via Spatio-Angular Consistency. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 9993, 9-16	0.9	3

96	The non-local bootstrap--estimation of uncertainty in diffusion MRI. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 23, 390-401	0.9	3
95	A generative model for resolution enhancement of diffusion MRI data. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 16, 527-34	0.9	3
94	Resolution enhancement of diffusion-weighted images by local fiber profiling. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 15, 18-25	0.9	3
93	Regularized spherical polar fourier diffusion MRI with optimal dictionary learning. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 16, 639-46	0.9	3
92	Joint learning of appearance and transformation for predicting brain MR image registration. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 23, 499-510	0.9	3
91	Dilated perivascular space is related to reduced free-water in surrounding white matter among healthy adults and elderlies but not in patients with severe cerebral small vessel disease. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2021</b> , 41, 2561-2570	7.3	3
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87	Difficulty-aware hierarchical convolutional neural networks for deformable registration of brain MR images. <i>Medical Image Analysis</i> , <b>2021</b> , 67, 101817	15.4	3
86	Asymmetric multi-task attention network for prostate bed segmentation in computed tomography images. <i>Medical Image Analysis</i> , <b>2021</b> , 72, 102116	15.4	3
85	Asymmetry Spectrum Imaging for Baby Diffusion Tractography. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 11492, 319-331	0.9	2
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83	High-Resolution Breast MRI Reconstruction Using a Deep Convolutional Generative Adversarial Network. <i>Journal of Magnetic Resonance Imaging</i> , <b>2020</b> , 52, 1852-1858	5.6	2
82	Learning Appearance and Shape Evolution for Infant Image Registration in the First Year of Life. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 36-44	0.9	2
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80	Multimodal Hyper-connectivity Networks for MCI Classification. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 10433, 433-441	0.9	2
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75	Probing Brain Micro-architecture by Orientation Distribution Invariant Identification of Diffusion Compartments. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 11766, 547-555	0.9	2
74	Characterizing Non-Gaussian Diffusion in Heterogeneously Oriented Tissue Microenvironments. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 11766, 556-563	0.9	2
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71	Block-Based Statistics for Robust Non-parametric Morphometry. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 9467, 62-70	0.9	2
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67	Iterative Subspace Screening for Rapid Sparse Estimation of Brain Tissue Microstructural Properties. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 9349, 223-230	0.9	2
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60	Learning MRI artefact removal with unpaired data. <i>Nature Machine Intelligence</i> , <b>2021</b> , 3, 60-67	22.5	2
59	DLLNet: An Attention-Based Deep Learning Method for Dental Landmark Localization on High-Resolution 3D Digital Dental Models.. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 12904, 478-487	0.9	2
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57	ABCnet: Adversarial bias correction network for infant brain MR images. <i>Medical Image Analysis</i> , <b>2021</b> , 72, 102133	15.4	2
56	Fast Groupwise Registration Using Multi-Level and Multi-Resolution Graph Shrinkage. <i>Scientific Reports</i> , <b>2019</b> , 9, 12703	4.9	1
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53	Consistent 4D Brain Extraction of Serial Brain MR Images. <i>Proceedings of SPIE</i> , <b>2013</b> , 8669,	1.7	1
52	Characterizing Intra-soma Diffusion with Spherical Mean Spectrum Imaging. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 12267, 354-363	0.9	1
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50	Deep Disentangled Hashing with Momentum Triplets for Neuroimage Search. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 12261, 191-201	0.9	1
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47	Interactive Registration and Segmentation for Multi-Atlas-Based Labeling of Brain MR Image. <i>Communications in Computer and Information Science</i> , <b>2015</b> , 240-248	0.3	1
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45	Tensorial Spherical Polar Fourier Diffusion MRI with Optimal Dictionary Learning. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 9349, 174-182	0.9	1
44	Dynamic neural circuit disruptions associated with antisocial behaviors. <i>Human Brain Mapping</i> , <b>2021</b> , 42, 329-344	5.9	1
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42	A Self-Supervised Deep Framework for Reference Bony Shape Estimation in Orthognathic Surgical Planning.. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 12904, 469-477	0.9	1
41	NHBS-Net: A Feature Fusion Attention Network for Ultrasound Neonatal Hip Bone Segmentation. <i>IEEE Transactions on Medical Imaging</i> , <b>2021</b> , 40, 3446-3458	11.7	1
40	Joint Robust Imputation and Classification for Early Dementia Detection Using Incomplete Multi-modality Data. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 11121, 51-59	0.9	1
39	Unsupervised learning of reference bony shapes for orthognathic surgical planning with a surface deformation network. <i>Medical Physics</i> , <b>2021</b> , 48, 7735	4.4	1
38	Insights from the IronTract challenge: Optimal methods for mapping brain pathways from multi-shell diffusion MRI. <i>NeuroImage</i> , <b>2022</b> , 257, 119327	7.9	1
37	Tissue Segmentation Using Sparse Non-negative Matrix Factorization of Spherical Mean Diffusion MRI Data. <i>Mathematics and Visualization</i> , <b>2019</b> , 2019, 69-76	0.6	0
36	Longitudinal Harmonization for Improving Tractography in Baby Diffusion MRI. <i>Mathematics and Visualization</i> , <b>2019</b> , 2019, 183-191	0.6	0
35	Alterations of dynamic redundancy of functional brain subnetworks in Alzheimer's disease and major depression disorders.. <i>NeuroImage: Clinical</i> , <b>2021</b> , 33, 102917	5.3	0
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33	Fusion of High-Order and Low-Order Effective Connectivity Networks for MCI Classification. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 2017, 307-315	0.9	0
32	A consistent deep registration network with group data modeling. <i>Computerized Medical Imaging and Graphics</i> , <b>2021</b> , 90, 101904	7.6	0
31	Accelerating Global Tractography Using Parallel Markov Chain Monte Carlo. <i>Mathematics and Visualization</i> , <b>2016</b> , 2016, 121-130	0.6	0
30	Gaussianization of Diffusion MRI Data Using Spatially Adaptive Filtering. <i>Medical Image Analysis</i> , <b>2021</b> , 68, 101828	15.4	0
29	Multiscale neural modeling of resting-state fMRI reveals executive-limbic malfunction as a core mechanism in major depressive disorder. <i>NeuroImage: Clinical</i> , <b>2021</b> , 31, 102758	5.3	0
28	Skull Segmentation from CBCT Images via Voxel-Based Rendering.. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 12966, 615-623	0.9	0
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26	Spatiotemporal Analysis of Developing Brain Networks. <i>Frontiers in Neuroinformatics</i> , <b>2018</b> , 12, 48	3.9	0
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21	Synthetic digital reconstructed radiographs for MR-only robotic stereotactic radiation therapy: A proof of concept. <i>Computers in Biology and Medicine</i> , <b>2021</b> , 138, 104917	7
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14	Spatial warping of DWI data using sparse representation. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 15, 331-8	0.9
13	Brain-Cloud: A Generalized and Flexible Registration Framework for Brain MR Images. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 153-161	0.9
12	Deep learning and generative adversarial networks in oral and maxillofacial surgery <b>2021</b> , 55-82	
11	Active Cortex Tractography. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 467-476	0.9
10	Machine (Deep) Learning for Orthodontic CAD/CAM Technologies <b>2021</b> , 117-129	
9	Machine Learning for CBCT Segmentation of Craniomaxillofacial Bony Structures <b>2021</b> , 3-13	
8	Machine Learning for Craniomaxillofacial Landmark Digitization of 3D Imaging <b>2021</b> , 15-26	
7	Efficient Groupwise Registration of MR Brain Images via Hierarchical Graph Set Shrinkage. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 11070, 819-826	0.9



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