Guorong Wu

List of Publications by Year in Descending Order

104 papers	1,975 citations	24 h-index	41 g-index
113 ext. papers	2,380 ext. citations	4.9 avg, IF	4.96 L-index

#	Paper	IF	Citations
104	Characterizing the propagation pathway of neuropathological events of Alzheimer's disease using harmonic wavelet analysis.. *Medical Image Analysis*, **2022**, 79, 102446	15.4	1
103	Learning Brain Dynamics of Evolving Manifold Functional MRI Data Using Geometric-Attention Neural Network.. *IEEE Transactions on Medical Imaging*, **2022**, PP,	11.7	2
102	Uncovering shape signatures of resting-state functional connectivity by geometric deep learning on Riemannian manifold.. *Human Brain Mapping*, **2022**,	5.9	1
101	NuMorph: Tools for cortical cellular phenotyping in tissue-cleared whole-brain images. *Cell Reports*, **2021**, 37, 109802	10.6	1
100	Characterizing the Resilience Effect of Neurodegeneration for the Mechanistic Pathway of Alzheimer's Disease. *Journal of Alzheimer's Disease*, **2021**, 84, 1351-1362	4.3	
99	Learning dynamic graph embeddings for accurate detection of cognitive state changes in functional brain networks. *NeuroImage*, **2021**, 230, 117791	7.9	3
98	Segmentor: a tool for manual refinement of 3D microscopy annotations. *BMC Bioinformatics*, **2021**, 22, 260	3.6	5
97	Constructing Connectome Atlas by Graph Laplacian Learning. *Neuroinformatics*, **2021**, 19, 233-249	3.2	
96	Long range early diagnosis of Alzheimer's disease using longitudinal MR imaging data. *Medical Image Analysis*, **2021**, 67, 101825	15.4	10
95	Learning Common Harmonic Waves on Stiefel Manifold - A New Mathematical Approach for Brain Network Analyses. *IEEE Transactions on Medical Imaging*, **2021**, 40, 419-430	11.7	6
94	Multi-Band Brain Network Analysis for Functional Neuroimaging Biomarker Identification. *IEEE Transactions on Medical Imaging*, **2021**, 40, 3843-3855	11.7	14
93	Detecting Brain State Changes by Geometric Deep Learning of Functional Dynamics on Riemannian Manifold. *Lecture Notes in Computer Science*, **2021**, 543-552	0.9	4
92	Joint hub identification for brain networks by multivariate graph inference. *Medical Image Analysis*, **2021**, 73, 102162	15.4	0
91	CHARACTERIZING THE PROPAGATION PATTERN OF NEURODEGENERATION IN ALZHEIMER'S DISEASE BY LONGITUDINAL NETWORK ANALYSIS **2020**, 2020, 292-295	1.5	2
90	ENRICHING STATISTICAL INFERENCES ON BRAIN CONNECTIVITY FOR ALZHEIMER'S DISEASE ANALYSIS VIA LATENT SPACE GRAPH EMBEDDING **2020**, 2020, 1685-1689	1.5	1
89	A NOVEL SPATIO-TEMPORAL HUB IDENTIFICATION METHOD FOR DYNAMIC FUNCTIONAL NETWORKS **2020**, 2020, 1416-1419	1.5	
88	Detecting Changes of Functional Connectivity by Dynamic Graph Embedding Learning. *Lecture Notes in Computer Science*, **2020**, 489-497	0.9	4

87	A Novel Computational Proxy for Characterizing Cognitive Reserve in Alzheimer's Disease. *Journal of Alzheimer's Disease*, **2020**, 78, 1217-1228	4.3	1
86	Multi-Atlas Segmentation of Anatomical Brain Structures Using Hierarchical Hypergraph Learning. *IEEE Transactions on Neural Networks and Learning Systems*, **2020**, 31, 3061-3072	10.3	1
85	Sliding window correlation analysis: Modulating window shape for dynamic brain connectivity in resting state. *NeuroImage*, **2019**, 189, 655-666	7.9	25
84	Identifying disease-related subnetwork connectome biomarkers by sparse hypergraph learning. *Brain Imaging and Behavior*, **2019**, 13, 879-892	4.1	14
83	Entorhinal Cortex Atrophy in Early, Drug-naive Parkinson's Disease with Mild Cognitive Impairment **2019**, 10, 1221-1232		25
82	Cross Modality Microscopy Segmentation via Adversarial Adaptation. *Lecture Notes in Computer Science*, **2019**, 11466, 469-478	0.9	3
81	Dynamic Hyper-Graph Inference Framework for Computer-Assisted Diagnosis of Neurodegenerative Diseases. *IEEE Transactions on Medical Imaging*, **2019**, 38, 608-616	11.7	7
80	Semi-Supervised Discriminative Classification Robust to Sample-Outliers and Feature-Noises. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, **2019**, 41, 515-522	13.3	39
79	Dynamic fMRI networks predict success in a behavioral weight loss program among older adults. *NeuroImage*, **2018**, 173, 421-433	7.9	18
78	Learning non-linear patch embeddings with neural networks for label fusion. *Medical Image Analysis*, **2018**, 44, 143-155	15.4	12
77	NON-EUCLIDEAN, CONVOLUTIONAL LEARNING ON CORTICAL BRAIN SURFACES **2018**, 2018, 527-530	1.5	2
76	Concatenated Spatially-localized Random Forests for Hippocampus Labeling in Adult and Infant MR Brain Images. *Neurocomputing*, **2017**, 229, 3-12	5.4	20
75	Kernel-based Joint Feature Selection and Max-Margin Classification for Early Diagnosis of Parkinson's Disease. *Scientific Reports*, **2017**, 7, 41069	4.9	29
74	Dual-core steered non-rigid registration for multi-modal images via bi-directional image synthesis. *Medical Image Analysis*, **2017**, 41, 18-31	15.4	44
73	Multi-modal classification of neurodegenerative disease by progressive graph-based transductive learning. *Medical Image Analysis*, **2017**, 39, 218-230	15.4	33
72	Progressive multi-atlas label fusion by dictionary evolution. *Medical Image Analysis*, **2017**, 36, 162-171	15.4	10
71	Learning-based deformable registration for infant MRI by integrating random forest with auto-context model. *Medical Physics*, **2017**, 44, 6289-6303	4.4	13
70	Robust multi-atlas label propagation by deep sparse representation. *Pattern Recognition*, **2017**, 63, 511-517	7.7	23

69	Brain Atlas Fusion from High-Thickness Diagnostic Magnetic Resonance Images by Learning-Based Super-Resolution. *Pattern Recognition*, **2017**, 63, 531-541	7.7	17
68	Scalable Joint Segmentation and Registration Framework for Infant Brain Images. *Neurocomputing*, **2017**, 229, 54-62	5.4	11
67	A Tensor Statistical Model for Quantifying Dynamic Functional Connectivity. *Lecture Notes in Computer Science*, **2017**, 10265, 398-410	0.9	3
66	A Novel Dynamic Hyper-Graph Inference Framework for Computer Assisted Diagnosis of Neuro-Diseases. *Lecture Notes in Computer Science*, **2017**, 10265, 158-169	0.9	12
65	Personalized Diagnosis for Alzheimer's Disease. *Lecture Notes in Computer Science*, **2017**, 10435, 205-213	0.9	6
64	Efficient Groupwise Registration for Brain MRI by Fast Initialization. *Lecture Notes in Computer Science*, **2017**, 10541, 150-158	0.9	2
63	Learning-Based Multimodal Image Registration for Prostate Cancer Radiation Therapy. *Lecture Notes in Computer Science*, **2016**, 9902, 1-9	0.9	18
62	Automatic Segmentation of Hippocampus for Longitudinal Infant Brain MR Image Sequence by Spatial-Temporal Hypergraph Learning. *Lecture Notes in Computer Science*, **2016**, 9993, 1-8	0.9	4
61	Consistent Multi-Atlas Hippocampus Segmentation for Longitudinal MR Brain Images with Temporal Sparse Representation. *Lecture Notes in Computer Science*, **2016**, 9993, 34-42	0.9	3
60	Reveal Consistent Spatial-Temporal Patterns from Dynamic Functional Connectivity for Autism Spectrum Disorder Identification. *Lecture Notes in Computer Science*, **2016**, 9900, 106-114	0.9	20
59	Identifying Relationships in Functional and Structural Connectome Data Using a Hypergraph Learning Method. *Lecture Notes in Computer Science*, **2016**, 9901, 9-17	0.9	3
58	Early Diagnosis of Alzheimer's Disease by Joint Feature Selection and Classification on Temporally Structured Support Vector Machine. *Lecture Notes in Computer Science*, **2016**, 9900, 264-272	0.9	16
57	A dynamic tree-based registration could handle possible large deformations among MR brain images. *Computerized Medical Imaging and Graphics*, **2016**, 52, 1-7	7.6	1
56	Joint feature-sample selection and robust diagnosis of Parkinson's disease from MRI data. *NeuroImage*, **2016**, 141, 206-219	7.9	57
55	Progressive Graph-Based Transductive Learning for Multi-modal Classification of Brain Disorder Disease. *Lecture Notes in Computer Science*, **2016**, 9900, 291-299	0.9	8
54	Joint Discriminative and Representative Feature Selection for Alzheimer's Disease Diagnosis. *Lecture Notes in Computer Science*, **2016**, 10019, 77-85	0.9	2
53	Automatic Cystocele Severity Grading in Ultrasound by Spatio-Temporal Regression. *Lecture Notes in Computer Science*, **2016**, 9901, 247-255	0.9	
52	Multi-Atlas Based Segmentation of Brainstem Nuclei from MR Images by Deep Hyper-Graph Learning. *Lecture Notes in Computer Science*, **2016**, 9993, 51-59	0.9	3

51	Dual-Layer Groupwise Registration for Consistent Labeling of Longitudinal Brain Images. *Lecture Notes in Computer Science*, **2016**, 10019, 69-76	0.9	
50	eHUGS: Enhanced Hierarchical Unbiased Graph Shrinkage for Efficient Groupwise Registration. *PLoS ONE*, **2016**, 11, e0146870	3.7	6
49	Nonlocal atlas-guided multi-channel forest learning for human brain labeling. *Medical Physics*, **2016**, 43, 1003-19	4.4	8
48	Automatic labeling of MR brain images by hierarchical learning of atlas forests. *Medical Physics*, **2016**, 43, 1175-86	4.4	24
47	Identifying High Order Brain Connectome Biomarkers via Learning on Hypergraph. *Lecture Notes in Computer Science*, **2016**, 10019, 1-9	0.9	5
46	Robust anatomical landmark detection with application to MR brain image registration. *Computerized Medical Imaging and Graphics*, **2015**, 46 Pt 3, 277-90	7.6	14
45	Joint Labeling Of Multiple Regions of Interest (Rois) By Enhanced Auto Context Models **2015**, 2015, 1560-1563	0.5	2
44	Hierarchical multi-atlas label fusion with multi-scale feature representation and label-specific patch partition. *NeuroImage*, **2015**, 106, 34-46	7.9	79
43	Improved image registration by sparse patch-based deformation estimation. *NeuroImage*, **2015**, 105, 257-68	7.9	30
42	Hierarchical and symmetric infant image registration by robust longitudinal-example-guided correspondence detection. *Medical Physics*, **2015**, 42, 4174-89	4.4	8
41	Building dynamic population graph for accurate correspondence detection. *Medical Image Analysis*, **2015**, 26, 256-67	15.4	38
40	Multi-Atlas and Multi-Modal Hippocampus Segmentation for Infant MR Brain Images by Propagating Anatomical Labels on Hypergraph. *Lecture Notes in Computer Science*, **2015**, 9467, 188-196	0.9	9
39	Predict brain MR image registration via sparse learning of appearance and transformation. *Medical Image Analysis*, **2015**, 20, 61-75	15.4	25
38	Progressive Label Fusion Framework for Multi-atlas Segmentation by Dictionary Evolution. *Lecture Notes in Computer Science*, **2015**, 9351, 190-197	0.9	5
37	Segmentation of Infant Hippocampus Using Common Feature Representations Learned for Multimodal Longitudinal Data. *Lecture Notes in Computer Science*, **2015**, 9351, 63-71	0.9	7
36	Prediction of Infant MRI Appearance and Anatomical Structure Evolution using Sparse Patch-based Metamorphosis Learning Framework. *Lecture Notes in Computer Science*, **2015**, 9467, 197-204	0.9	10
35	Image Super-Resolution by Supervised Adaption of Patchwise Self-similarity from High-Resolution Image. *Lecture Notes in Computer Science*, **2015**, 9467, 10-18	0.9	2
34	Non-local Atlas-guided Multi-channel Forest Learning for Human Brain Labeling. *Lecture Notes in Computer Science*, **2015**, 9351, 719-726	0.9	

33	Hierarchical Multi-modal Image Registration by Learning Common Feature Representations. *Lecture Notes in Computer Science*, **2015**, 9352, 203-211	0.9	
32	Multi-atlas based representations for Alzheimer's disease diagnosis. *Human Brain Mapping*, **2014**, 35, 5052-70	5.9	53
31	S-HAMMER: hierarchical attribute-guided, symmetric diffeomorphic registration for MR brain images. *Human Brain Mapping*, **2014**, 35, 1044-60	5.9	37
30	A generative probability model of joint label fusion for multi-atlas based brain segmentation. *Medical Image Analysis*, **2014**, 18, 881-90	15.4	93
29	Disrupted brain functional network in internet addiction disorder: a resting-state functional magnetic resonance imaging study. *PLoS ONE*, **2014**, 9, e107306	3.7	56
28	INTER-GROUP IMAGE REGISTRATION BY HIERARCHICAL GRAPH SHRINKAGE **2013**, 2013, 1030-1033	1.5	
27	Unsupervised deep feature learning for deformable registration of MR brain images. *Lecture Notes in Computer Science*, **2013**, 16, 649-56	0.9	58
26	Estimating the 4D respiratory lung motion by spatiotemporal registration and super-resolution image reconstruction. *Medical Physics*, **2013**, 40, 031710	4.4	19
25	Minimizing joint risk of mislabeling for iterative Patch-based label fusion. *Lecture Notes in Computer Science*, **2013**, 16, 551-8	0.9	3
24	Harnessing group-sparsity regularization for resolution enhancement of lung 4D-CT. *Lecture Notes in Computer Science*, **2013**, 16, 139-46	0.9	
23	Feature-based groupwise registration by hierarchical anatomical correspondence detection. *Human Brain Mapping*, **2012**, 33, 253-71	5.9	38
22	Reconstruction of super-resolution lung 4D-CT using patch-based sparse representation **2012**,		9
21	Registration of longitudinal brain image sequences with implicit template and spatial-temporal heuristics. *NeuroImage*, **2012**, 59, 404-21	7.9	25
20	Directed graph based image registration. *Computerized Medical Imaging and Graphics*, **2012**, 36, 139-51	7.6	10
19	Improving image-guided radiation therapy of lung cancer by reconstructing 4D-CT from a single free-breathing 3D-CT on the treatment day. *Medical Physics*, **2012**, 39, 7694-709	4.4	17
18	Hierarchical attribute-guided symmetric diffeomorphic registration for MR brain images. *Lecture Notes in Computer Science*, **2012**, 15, 90-7	0.9	7
17	Sparse Patch-Based Label Fusion for Multi-Atlas Segmentation. *Lecture Notes in Computer Science*, **2012**, 94-102	0.9	33
16	SharpMean: groupwise registration guided by sharp mean image and tree-based registration. *NeuroImage*, **2011**, 56, 1968-81	7.9	99

15	Intermediate templates guided groupwise registration of diffusion tensor images. *NeuroImage*, **2011**, 54, 928-39	7.9	29
14	GROUPWISE REGISTRATION OF BREAST DCE-MR IMAGES FOR ACCURATE TUMOR MEASUREMENT **2011**, 2011, 598-601	1.5	3
13	Infant brain atlases from neonates to 1- and 2-year-olds. *PLoS ONE*, **2011**, 6, e18746	3.7	328
12	Reconstruction of 4D-CT from a single free-breathing 3D-CT by spatial-temporal image registration. *Lecture Notes in Computer Science*, **2011**, 22, 686-98	0.9	8
11	Estimating the 4D respiratory lung motion by spatiotemporal registration and building super-resolution image. *Lecture Notes in Computer Science*, **2011**, 14, 532-9	0.9	8
10	Confidence-guided sequential label fusion for multi-atlas based segmentation. *Lecture Notes in Computer Science*, **2011**, 14, 643-50	0.9	13
9	ABSORB: Atlas Building by Self-organized Registration and Bundling. *NeuroImage*, **2010**, 51, 1057-70	7.9	86
8	TPS-HAMMER: improving HAMMER registration algorithm by soft correspondence matching and thin-plate splines based deformation interpolation. *NeuroImage*, **2010**, 49, 2225-33	7.9	38
7	Attribute vector guided groupwise registration. *NeuroImage*, **2010**, 50, 1485-96	7.9	22
6	GROUPWISE REGISTRATION FROM EXEMPLAR TO GROUP MEAN: EXTENDING HAMMER TO GROUPWISE REGISTRATION **2010**, 2010, 396-399	1.5	7
5	Registration of longitudinal image sequences with implicit template and spatial-temporal heuristics. *Lecture Notes in Computer Science*, **2010**, 13, 618-25	0.9	6
4	Groupwise registration by hierarchical anatomical correspondence detection. *Lecture Notes in Computer Science*, **2010**, 13, 684-91	0.9	2
3	Groupwise registration with sharp mean. *Lecture Notes in Computer Science*, **2010**, 13, 570-7	0.9	6
2	Detecting and Segmenting Text from Natural Scenes with 2-Stage Classification **2006**,		2
1	Learning best features for deformable registration of MR brains. *Lecture Notes in Computer Science*, **2005**, 8, 179-87	0.9	7