Wenjia Bai

List of Publications by Year in Descending Order

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Version: 2024-04-28

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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.

104 3,493 31 57 g-index

113 4,686 6.4 sext. papers ext. citations avg, IF 5.46

L-index

#	Paper	IF	Citations
104	Precision measurement of cardiac structure and function in cardiovascular magnetic resonance using machine learning <i>Journal of Cardiovascular Magnetic Resonance</i> , 2022 , 24, 16	6.9	2
103	Genetic and environmental determinants of diastolic heart function. 2022, 1, 361-371		0
102	Dynamic Spatio-Temporal Graph Convolutional Networks For Cardiac Motion Analysis 2021 ,		2
101	Alcohol consumption in the general population is associated with structural changes in multiple organ systems. <i>ELife</i> , 2021 , 10,	8.9	3
100	Late-Gadolinium Enhancement Interface Area and Electrophysiological Simulations Predict Arrhythmic Events in Patients With Nonischemic Dilated Cardiomyopathy. <i>JACC: Clinical Electrophysiology</i> , 2021 , 7, 238-249	4.6	3
99	A global benchmark of algorithms for segmenting the left atrium from late gadolinium-enhanced cardiac magnetic resonance imaging. <i>Medical Image Analysis</i> , 2021 , 67, 101832	15.4	30
98	Modelling Cardiac Motion via Spatio-Temporal Graph Convolutional Networks to Boost the Diagnosis of Heart Conditions. <i>Lecture Notes in Computer Science</i> , 2021 , 56-65	0.9	3
97	Multiscale Graph Convolutional Networks for Cardiac Motion Analysis. <i>Lecture Notes in Computer Science</i> , 2021 , 264-272	0.9	2
96	DeepMCAT: Large-Scale Deep Clustering for Medical Image Categorization. <i>Lecture Notes in Computer Science</i> , 2021 , 259-267	0.9	O
95	Cooperative Training and Latent Space Data Augmentation for Robust Medical Image Segmentation. <i>Lecture Notes in Computer Science</i> , 2021 , 149-159	0.9	6
94	Joint Motion Correction and Super Resolution for Cardiac Segmentation via Latent Optimisation. <i>Lecture Notes in Computer Science</i> , 2021 , 14-24	0.9	2
93	Phenotypic Expression and Outcomes in Individuals With Rare Genetic Variants of Hypertrophic Cardiomyopathy. <i>Journal of the American College of Cardiology</i> , 2021 , 78, 1097-1110	15.1	3
92	Shared genetic pathways contribute to risk of hypertrophic and dilated cardiomyopathies with opposite directions of effect. <i>Nature Genetics</i> , 2021 , 53, 128-134	36.3	35
91	Deep Learning for Cardiac Image Segmentation: A Review. <i>Frontiers in Cardiovascular Medicine</i> , 2020 , 7, 25	5.4	203
90	Improving the Generalizability of Convolutional Neural Network-Based Segmentation on CMR Images. <i>Frontiers in Cardiovascular Medicine</i> , 2020 , 7, 105	5.4	40
89	Clinical quantitative cardiac imaging for the assessment of myocardial ischaemia. <i>Nature Reviews Cardiology</i> , 2020 , 17, 427-450	14.8	37
88	Large-scale Quality Control of Cardiac Imaging in Population Studies: Application to UK Biobank. <i>Scientific Reports</i> , 2020 , 10, 2408	4.9	13

(2019-2020)

87	Sex and regional differences in myocardial plasticity in aortic stenosis are revealed by 3D model machine learning. <i>European Heart Journal Cardiovascular Imaging</i> , 2020 , 21, 417-427	4.1	5
86	Unsupervised Multi-modal Style Transfer for Cardiac MR Segmentation. <i>Lecture Notes in Computer Science</i> , 2020 , 209-219	0.9	22
85	Going Deeper into Cardiac Motion Analysis to Model Fine Spatio-Temporal Features. <i>Communications in Computer and Information Science</i> , 2020 , 294-306	0.3	3
84	Realistic Adversarial Data Augmentation for MR Image Segmentation. <i>Lecture Notes in Computer Science</i> , 2020 , 667-677	0.9	16
83	Biomechanics-Informed Neural Networks for Myocardial Motion Tracking in MRI. <i>Lecture Notes in Computer Science</i> , 2020 , 296-306	0.9	4
82	Deep Generative Model-Based Quality Control for Cardiac MRI Segmentation. <i>Lecture Notes in Computer Science</i> , 2020 , 88-97	0.9	5
81	Explainable Anatomical Shape Analysis Through Deep Hierarchical Generative Models. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 2088-2099	11.7	12
80	A population-based phenome-wide association study of cardiac and aortic structure and function. <i>Nature Medicine</i> , 2020 , 26, 1654-1662	50.5	23
79	Genetic and functional insights into the fractal structure of the heart. <i>Nature</i> , 2020 , 584, 589-594	50.4	26
78	Data-Driven Microscopic Pose and Depth Estimation for Optical Microrobot Manipulation. <i>ACS Photonics</i> , 2020 , 7, 3003-3014	6.3	3
77	Fully Automated, Quality-Controlled Cardiac Analysis From CMR: Validation and Large-Scale Application to Characterize Cardiac Function. <i>JACC: Cardiovascular Imaging</i> , 2020 , 13, 684-695	8.4	61
76	Quality-aware semi-supervised learning for CMR segmentation. <i>Lecture Notes in Computer Science</i> , 2020 , 2020, 97-107	0.9	4
75	Scar shape analysis and simulated electrical instabilities in a non-ischemic dilated cardiomyopathy patient cohort. <i>PLoS Computational Biology</i> , 2019 , 15, e1007421	5	5
74	A Multicenter, Scan-Rescan, Human and Machine Learning CMR Study to Test Generalizability and Precision in Imaging Biomarker Analysis. <i>Circulation: Cardiovascular Imaging</i> , 2019 , 12, e009214	3.9	43
73	Automatic 3D Bi-Ventricular Segmentation of Cardiac Images by a Shape-Refined Multi- Task Deep Learning Approach. <i>IEEE Transactions on Medical Imaging</i> , 2019 , 38, 2151-2164	11.7	85
72	Voltage during atrial fibrillation is superior to voltage during sinus rhythm in localizing areas of delayed enhancement on magnetic resonance imaging: An assessment of the posterior left atrium in patients with persistent atrial fibrillation. <i>Heart Rhythm</i> , 2019 , 16, 1357-1367	6.7	21
71	Automated quality control in image segmentation: application to the UK Biobank cardiovascular magnetic resonance imaging study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2019 , 21, 18	6.9	49
70	Ventricular remodeling in preterm infants: computational cardiac magnetic resonance atlasing shows significant early remodeling of the left ventricle. <i>Pediatric Research</i> , 2019 , 85, 807-815	3.2	26

69	Multi-task Learning for Left Atrial Segmentation on GE-MRI. <i>Lecture Notes in Computer Science</i> , 2019 , 292-301	0.9	12
68	Learning Shape Priors for Robust Cardiac MR Segmentation from Multi-view Images. <i>Lecture Notes in Computer Science</i> , 2019 , 523-531	0.9	12
67	Self-Supervised Learning for Cardiac MR Image Segmentation by Anatomical Position Prediction. <i>Lecture Notes in Computer Science</i> , 2019 , 541-549	0.9	31
66	VS-Net: Variable Splitting Network for Accelerated Parallel MRI Reconstruction. <i>Lecture Notes in Computer Science</i> , 2019 , 713-722	0.9	20
65	Independent Left Ventricular Morphometric Atlases Show Consistent Relationships with Cardiovascular Risk Factors: A UK Biobank Study. <i>Scientific Reports</i> , 2019 , 9, 1130	4.9	23
64	Associations of Regional Brain Structural Differences With Aging, Modifiable Risk Factors for Dementia, and Cognitive Performance. <i>JAMA Network Open</i> , 2019 , 2, e1917257	10.4	23
63	Learning-Based Quality Control for Cardiac MR Images. <i>IEEE Transactions on Medical Imaging</i> , 2019 , 38, 1127-1138	11.7	31
62	Multi-Atlas Segmentation Using Partially Annotated Data: Methods and Annotation Strategies. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2018 , 40, 1683-1696	13.3	7
61	Anatomically Constrained Neural Networks (ACNNs): Application to Cardiac Image Enhancement and Segmentation. <i>IEEE Transactions on Medical Imaging</i> , 2018 , 37, 384-395	11.7	333
60	Statistical shape modeling of the left ventricle: myocardial infarct classification challenge. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2018 , 22, 503-515	7.2	35
59	Myocardial strain computed at multiple spatial scales from tagged magnetic resonance imaging: Estimating cardiac biomarkers for CRT patients. <i>Medical Image Analysis</i> , 2018 , 43, 169-185	15.4	5
58	Three-dimensional cardiovascular imaging-genetics: a mass univariate framework. <i>Bioinformatics</i> , 2018 , 34, 97-103	7.2	22
57	Automatic View Planning with Multi-scale Deep Reinforcement Learning Agents. <i>Lecture Notes in Computer Science</i> , 2018 , 277-285	0.9	20
56	Recurrent Neural Networks for Aortic Image Sequence Segmentation with Sparse Annotations. <i>Lecture Notes in Computer Science</i> , 2018 , 586-594	0.9	40
55	Deep Nested Level Sets: Fully Automated Segmentation of Cardiac MR Images in Patients with Pulmonary Hypertension. <i>Lecture Notes in Computer Science</i> , 2018 , 595-603	0.9	13
54	Combining Deep Learning and Shape Priors for Bi-Ventricular Segmentation of Volumetric Cardiac Magnetic Resonance Images. <i>Lecture Notes in Computer Science</i> , 2018 , 258-267	0.9	3
53	Fibrosis Microstructure Modulates Reentry in Non-ischemic Dilated Cardiomyopathy: Insights From Imaged Guided 2D Computational Modeling. <i>Frontiers in Physiology</i> , 2018 , 9, 1832	4.6	16
52	Real-Time Prediction of Segmentation Quality. <i>Lecture Notes in Computer Science</i> , 2018 , 578-585	0.9	14

(2017-2018)

51	A Comprehensive Approach for Learning-Based Fully-Automated Inter-slice Motion Correction for Short-Axis Cine Cardiac MR Image Stacks. <i>Lecture Notes in Computer Science</i> , 2018 , 268-276	0.9	5
50	Learning Interpretable Anatomical Features Through Deep Generative Models: Application to Cardiac Remodeling. <i>Lecture Notes in Computer Science</i> , 2018 , 464-471	0.9	25
49	Automated cardiovascular magnetic resonance image analysis with fully convolutional networks. Journal of Cardiovascular Magnetic Resonance, 2018 , 20, 65	6.9	285
48	Joint Motion Estimation and Segmentation from Undersampled Cardiac MR Image. <i>Lecture Notes in Computer Science</i> , 2018 , 55-63	0.9	10
47	Bayesian Deep Learning for Accelerated MR Image Reconstruction. <i>Lecture Notes in Computer Science</i> , 2018 , 64-71	0.9	11
46	Cardiac MR Segmentation from Undersampled k-space Using Deep Latent Representation Learning. <i>Lecture Notes in Computer Science</i> , 2018 , 259-267	0.9	9
45	Joint Learning of Motion Estimation and Segmentation for Cardiac MR Image Sequences. <i>Lecture Notes in Computer Science</i> , 2018 , 472-480	0.9	44
44	Fully automated myocardial strain estimation from cine MRI using convolutional neural networks 2018 ,		11
43	A framework for combining a motion atlas with non-motion information to learn clinically useful biomarkers: Application to cardiac resynchronisation therapy response prediction. <i>Medical Image Analysis</i> , 2017 , 35, 669-684	15.4	30
42	Reverse Classification Accuracy: Predicting Segmentation Performance in the Absence of Ground Truth. <i>IEEE Transactions on Medical Imaging</i> , 2017 , 36, 1597-1606	11.7	57
41	Automated Detection of Motion Artefacts in MR Imaging Using Decision Forests. <i>Journal of Medical Engineering</i> , 2017 , 2017, 4501647		20
40	Abnormal brain white matter microstructure is associated with both pre-hypertension and hypertension. <i>PLoS ONE</i> , 2017 , 12, e0187600	3.7	29
39	Semi-supervised Learning for Network-Based Cardiac MR Image Segmentation. <i>Lecture Notes in Computer Science</i> , 2017 , 253-260	0.9	98
38	Automatic Quality Control of Cardiac MRI Segmentation in Large-Scale Population Imaging. <i>Lecture Notes in Computer Science</i> , 2017 , 720-727	0.9	11
37	DeepCut: Object Segmentation From Bounding Box Annotations Using Convolutional Neural Networks. <i>IEEE Transactions on Medical Imaging</i> , 2017 , 36, 674-683	11.7	146
36	Stratified Decision Forests for Accurate Anatomical Landmark Localization in Cardiac Images. <i>IEEE Transactions on Medical Imaging</i> , 2017 , 36, 332-342	11.7	40
35	Learning-Based Heart Coverage Estimation for Short-Axis Cine Cardiac MR Images. <i>Lecture Notes in Computer Science</i> , 2017 , 73-82	0.9	3
34	Fully Automated Segmentation-Based Respiratory Motion Correction of Multiplanar Cardiac Magnetic Resonance Images for Large-Scale Datasets. <i>Lecture Notes in Computer Science</i> , 2017 , 332-340	0.9	15

33	Learning Optimal Spatial Scales for Cardiac Strain Analysis Using a Motion Atlas. <i>Lecture Notes in Computer Science</i> , 2017 , 57-65	0.9	
32	Multi-input Cardiac Image Super-Resolution Using Convolutional Neural Networks. <i>Lecture Notes in Computer Science</i> , 2016 , 246-254	0.9	78
31	Towards Left Ventricular Scar Localisation Using Local Motion Descriptors. <i>Lecture Notes in Computer Science</i> , 2016 , 30-39	0.9	3
30	Beyond the AHA 17-Segment Model: Motion-Driven Parcellation of the Left Ventricle. <i>Lecture Notes in Computer Science</i> , 2016 , 13-20	0.9	2
29	Multiatlas whole heart segmentation of CT data using conditional entropy for atlas ranking and selection. <i>Medical Physics</i> , 2015 , 42, 3822-33	4.4	53
28	Learning a Global Descriptor of Cardiac Motion from a Large Cohort of 1000+ Normal Subjects. Lecture Notes in Computer Science, 2015, 3-11	0.9	3
27	Right ventricle segmentation from cardiac MRI: a collation study. <i>Medical Image Analysis</i> , 2015 , 19, 187-	203 .4	144
26	Multi-atlas segmentation with augmented features for cardiac MR images. <i>Medical Image Analysis</i> , 2015 , 19, 98-109	15.4	116
25	A bi-ventricular cardiac atlas built from 1000+ high resolution MR images of healthy subjects and an analysis of shape and motion. <i>Medical Image Analysis</i> , 2015 , 26, 133-45	15.4	84
24	Probabilistic Edge Map (PEM) for 3D Ultrasound Image Registration and Multi-atlas Left Ventricle Segmentation. <i>Lecture Notes in Computer Science</i> , 2015 , 223-230	0.9	3
23	Prospective Identification of CRT Super Responders Using a Motion Atlas and Random Projection Ensemble Learning. <i>Lecture Notes in Computer Science</i> , 2015 , 493-500	0.9	6
22	Prediction of Clinical Information from Cardiac MRI Using Manifold Learning. <i>Lecture Notes in Computer Science</i> , 2015 , 91-98	0.9	3
21	Patch-Based Evaluation of Image Segmentation 2014,		10
20	Application-driven MRI: joint reconstruction and segmentation from undersampled MRI data. <i>Lecture Notes in Computer Science</i> , 2014 , 17, 106-13	0.9	10
19	Multi-atlas spectral PatchMatch: application to cardiac image segmentation. <i>Lecture Notes in Computer Science</i> , 2014 , 17, 348-55	0.9	5
18	A probabilistic patch-based label fusion model for multi-atlas segmentation with registration refinement: application to cardiac MR images. <i>IEEE Transactions on Medical Imaging</i> , 2013 , 32, 1302-15	11.7	145
17	Automated analysis of atrial late gadolinium enhancement imaging that correlates with endocardial voltage and clinical outcomes: a 2-center study. <i>Heart Rhythm</i> , 2013 , 10, 1184-91	6.7	95
16	Evaluation of current algorithms for segmentation of scar tissue from late gadolinium enhancement cardiovascular magnetic resonance of the left atrium: an open-access grand challenge lournal of Cardiovascular Magnetic Resonance 2013 15 105	6.9	111

LIST OF PUBLICATIONS

15	Temporal sparse free-form deformations. <i>Medical Image Analysis</i> , 2013 , 17, 779-89	15.4	48
14	Cardiac image super-resolution with global correspondence using multi-atlas patchmatch. <i>Lecture Notes in Computer Science</i> , 2013 , 16, 9-16	0.9	100
13	Registration using sparse free-form deformations. <i>Lecture Notes in Computer Science</i> , 2012 , 15, 659-66	0.9	16
12	Motion correction and attenuation correction for respiratory gated PET images. <i>IEEE Transactions on Medical Imaging</i> , 2011 , 30, 351-65	11.7	53
11	A quantification model for apoptosis in mouse embryos in the early stage of fetation. <i>Science in China Series C: Life Sciences</i> , 2009 , 52, 922-7		1
10	Regularized B-spline deformable registration for respiratory motion correction in PET images. <i>Physics in Medicine and Biology</i> , 2009 , 54, 2719-36	3.8	59
9	Spatio-temporal image registration for respiratory motion correction in PET imaging 2009,		5
8	Imaging of Calcium Oscillation in Mouse Oocyte/zygote by Two Photon Laser Scanning Microscopy 2008 ,		1
7	Automatic dendritic spine analysis in two-photon laser scanning microscopy images. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2007 , 71, 818-26	4.6	22
6	TRACKING OF MIGRATING GLIOMA CELLS IN FEATURE SPACE 2007 ,		3
5	Respiratory Motion Correction for 2D Cine Cardiac MR Images using Probabilistic Edge Maps		2
4	Genomic analysis reveals a functional role for myocardial trabeculae in adults		1
3	Genetic and environmental determinants of diastolic heart function		1
2	Alcohol consumption is associated with structural changes in various organ systems: A population-based study in UK Biobank		1
1	Outcomes and phenotypic expression of rare variants in hypertrophic cardiomyopathy genes amongst UK Biobank participants		1