Wufan Chen

List of Publications by Year in descending order

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WHEAN CHEN

#	Article	IF	CITATIONS
1	Retrieval of Brain Tumors by Adaptive Spatial Pooling and Fisher Vector Representation. PLoS ONE, 2016, 11, e0157112.	1.1	171
2	Nonlocal Prior Bayesian Tomographic Reconstruction. Journal of Mathematical Imaging and Vision, 2008, 30, 133-146.	0.8	126
3	Robustness of Radiomic Features in [11C]Choline and [18F]FDG PET/CT Imaging of Nasopharyngeal Carcinoma: Impact of Segmentation and Discretization. Molecular Imaging and Biology, 2016, 18, 935-945.	1.3	100
4	Cascade of multi-scale convolutional neural networks for bone suppression of chest radiographs in gradient domain. Medical Image Analysis, 2017, 35, 421-433.	7.0	96
5	Adaptive Denoising by Singular Value Decomposition. IEEE Signal Processing Letters, 2011, 18, 215-218.	2.1	95
6	Denoising of 3D magnetic resonance images by using higher-order singular value decomposition. Medical Image Analysis, 2015, 19, 75-86.	7.0	85
7	Pattern Classification for Gastrointestinal Stromal Tumors by Integration of Radiomics and Deep Convolutional Features. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 1181-1191.	3.9	74
8	Spectral conjugate gradient methods with sufficient descent property for large-scale unconstrained optimization. Optimization Methods and Software, 2008, 23, 275-293.	1.6	71
9	Iterative Reconstruction for X-Ray Computed Tomography Using Prior-Image Induced Nonlocal Regularization. IEEE Transactions on Biomedical Engineering, 2014, 61, 2367-2378.	2.5	71
10	Radiomics Analysis of PET and CT Components of PET/CT Imaging Integrated with Clinical Parameters: Application to Prognosis for Nasopharyngeal Carcinoma. Molecular Imaging and Biology, 2019, 21, 954-964.	1.3	70
11	Brain extraction based on locally linear representation-based classification. NeuroImage, 2014, 92, 322-339.	2.1	66
12	Robustness versus disease differentiation when varying parameter settings in radiomics features: application to nasopharyngeal PET/CT. European Radiology, 2018, 28, 3245-3254.	2.3	58
13	Machine Learning Methods for Optimal Radiomics-Based Differentiation Between Recurrence and Inflammation: Application to Nasopharyngeal Carcinoma Post-therapy PET/CT Images. Molecular Imaging and Biology, 2020, 22, 730-738.	1.3	51
14	SMU-Net: Saliency-Guided Morphology-Aware U-Net for Breast Lesion Segmentation in Ultrasound Image. IEEE Transactions on Medical Imaging, 2022, 41, 476-490.	5.4	47
15	Noise correlation in CBCT projection data and its application for noise reduction in lowâ€dose CBCT. Medical Physics, 2014, 41, 031906.	1.6	39
16	Adaptively regularized constrained total least-squares image restoration. IEEE Transactions on Image Processing, 2000, 9, 588-596.	6.0	37
17	Relation-Induced Multi-Modal Shared Representation Learning for Alzheimer's Disease Diagnosis. IEEE Transactions on Medical Imaging, 2021, 40, 1632-1645.	5.4	36
18	3.5D dynamic PET image reconstruction incorporating kinetics-based clusters. Physics in Medicine and Biology, 2012, 57, 5035-5055.	1.6	33

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19	Low-dose cerebral perfusion computed tomography image restoration via low-rank and total variation regularizations. Neurocomputing, 2016, 197, 143-160.	3.5	33
20	Denoise diffusion-weighted images using higher-order singular value decomposition. NeuroImage, 2017, 156, 128-145.	2.1	33
21	Fewâ€view coneâ€beam CT reconstruction with deformed prior image. Medical Physics, 2014, 41, 121905.	1.6	32
22	Longitudinal measurement and hierarchical classification framework for the prediction of Alzheimer's disease. Scientific Reports, 2017, 7, 39880.	1.6	32
23	Multiresolution Elastic Registration of X-Ray Angiography Images Using Thin-Plate Spline. IEEE Transactions on Nuclear Science, 2007, 54, 152-166.	1.2	30
24	Content-Based Image Retrieval Using Spatial Layout Information in Brain Tumor T1-Weighted Contrast-Enhanced MR Images. PLoS ONE, 2014, 9, e102754.	1.1	30
25	Denoising MR Images Using Non-Local Means Filter with Combined Patch and Pixel Similarity. PLoS ONE, 2014, 9, e100240.	1.1	29
26	Cerebral perfusion computed tomography deconvolution via structure tensor total variation regularization. Medical Physics, 2016, 43, 2091-2107.	1.6	29
27	MRI Gibbsâ€ringing artifact reduction by means of machine learning using convolutional neural networks. Magnetic Resonance in Medicine, 2019, 82, 2133-2145.	1.9	26
28	Prediction of local recurrence and distant metastasis using radiomics analysis of pretreatment nasopharyngeal [18F]FDG PET/CT images. Annals of Nuclear Medicine, 2021, 35, 458-468.	1.2	26
29	Dynamic Positron Emission Tomography Image Restoration via a Kinetics-Induced Bilateral Filter. PLoS ONE, 2014, 9, e89282.	1.1	22
30	Phase- and GVF-Based Level Set Segmentation of Ultrasonic Breast Tumors. Journal of Applied Mathematics, 2012, 2012, 1-22.	0.4	19
31	Multispectral Interlaced Sparse Sampling Photoacoustic Tomography. IEEE Transactions on Medical Imaging, 2020, 39, 3463-3474.	5.4	18
32	Noise Estimation for Single-Slice Sinogram of Low-Dose X-Ray Computed Tomography Using Homogenous Patch. Mathematical Problems in Engineering, 2012, 2012, 1-16.	0.6	17
33	Liver DCE-MRI Registration in Manifold Space Based on Robust Principal Component Analysis. Scientific Reports, 2016, 6, 34461.	1.6	17
34	Bone Suppression of Chest Radiographs With Cascaded Convolutional Networks in Wavelet Domain. IEEE Access, 2019, 7, 8346-8357.	2.6	17
35	Prediction of CT Substitutes from MR Images Based on Local Diffeomorphic Mapping for Brain PET Attenuation Correction. Journal of Nuclear Medicine, 2016, 57, 1635-1641.	2.8	16
36	Model-Based Optoacoustic Tomography Image Reconstruction With Non-local and Sparsity Regularizations. IEEE Access, 2019, 7, 102136-102148.	2.6	16

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37	Photoacoustic imaging of living mice enhanced with a low-cost contrast agent. Biomedical Optics Express, 2019, 10, 5744.	1.5	16
38	Direct Cellularity Estimation on Breast Cancer Histopathology Images Using Transfer Learning. Computational and Mathematical Methods in Medicine, 2019, 2019, 1-13.	0.7	15
39	Rigid motion correction for magnetic resonance fingerprinting with sliding-window reconstruction and image registration. Magnetic Resonance Imaging, 2019, 57, 303-312.	1.0	15
40	Reconstruction of super-resolution lung 4D-CT using patch-based sparse representation. , 2012, , .		14
41	Iterative reconstruction for sparse-view X-ray CT using alpha-divergence constrained total generalized variation minimization. Journal of X-Ray Science and Technology, 2017, 25, 673-688.	0.7	14
42	Projection data restoration guided non-local means for low-dose computed tomography reconstruction. , 2011, , .		13
43	Sinogram Restoration for Low-Dosed X-Ray Computed Tomography Using Fractional-Order Perona-Malik Diffusion. Mathematical Problems in Engineering, 2012, 2012, 1-13.	0.6	13
44	Fetus MRI at 7 T: \${B}_{1}\$ Shimming Strategy and SAR Safety Implications. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 2146-2152.	2.9	13
45	Lowâ€dose dynamic myocardial perfusion CT imaging using a motion adaptive sparsity prior. Medical Physics, 2017, 44, e188-e201.	1.6	13
46	Photoacoustic Tomography Image Restoration With Measured Spatially Variant Point Spread Functions. IEEE Transactions on Medical Imaging, 2021, 40, 2318-2328.	5.4	13
47	Automatic 3-D segmentation and volumetric light fluence correction for photoacoustic tomography based on optimal 3-D graph search. Medical Image Analysis, 2022, 75, 102275.	7.0	11
48	On the Dynamics of an Impulsive Reaction-Diffusion Predator-Prey System with Ratio-Dependent Functional Response. Acta Applicandae Mathematicae, 2011, 115, 329-349.	0.5	10
49	Hierarchical and symmetric infant image registration by robust longitudinalâ€exampleâ€guided correspondence detection. Medical Physics, 2015, 42, 4174-4189.	1.6	10
50	Ultrasonography Monitoring of Trauma-Induced Heterotopic Ossification: Guidance for Rehabilitation Procedures. Frontiers in Neurology, 2018, 9, 771.	1.1	10
51	Linear Registration of Brain MRI Using Knowledge-Based Multiple Intermediator Libraries. Frontiers in Neuroscience, 2019, 13, 909.	1.4	10
52	2-Dicyanomethylenethiazole based NIR absorbing organic nanoparticles for photothermal therapy and photoacoustic imaging. Journal of Materials Chemistry B, 2019, 7, 3950-3957.	2.9	10
53	Cross-sectional photoacoustic tomography image reconstruction with a multi-curve integration model. Computer Methods and Programs in Biomedicine, 2020, 197, 105731.	2.6	10
54	Automatic three-dimensional segmentation of endoscopic airway OCT images. Biomedical Optics Express, 2019, 10, 642.	1.5	10

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55	New approach to the automatic segmentation of coronary artery in X-ray angiograms. Science in China Series F: Information Sciences, 2008, 51, 25-39.	1.1	9
56	Metal artifact reduction in CT based on adaptive steering filter and nonlocal sinogram inpainting. , 2010, , .		9
57	Dynamic PET denoising incorporating a composite image guided filter. , 2014, , .		9
58	Variability of Gross Tumor Volume in Nasopharyngeal Carcinoma Using 11C-Choline and 18F-FDG PET/CT. PLoS ONE, 2015, 10, e0131801.	1.1	9
59	Motion guided Spatiotemporal Sparsity for high quality 4D-CBCT reconstruction. Scientific Reports, 2017, 7, 17461.	1.6	9
60	A novel phaseâ€unwrapping method based on pixel clustering and local surface fitting with application to Dixon water–fat MRI. Magnetic Resonance in Medicine, 2018, 79, 515-528.	1.9	9
61	Multi-Constraint Latent Representation Learning for Prognosis Analysis Using Multi-Modal Data. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 3737-3750.	7.2	9
62	Texture-Preserving Image Deblurring. IEEE Signal Processing Letters, 2010, 17, 1018-1021.	2.1	8
63	Multispectral interlaced sparse sampling photoacoustic tomography based on directional total variation. Computer Methods and Programs in Biomedicine, 2022, 214, 106562.	2.6	8
64	An Improved FCM Algorithm Incorporating Spatial Information for Image Segmentation. , 2008, , .		7
65	A variable universe fuzzy control algorithm based on fuzzy neural network. , 2008, , .		7
66	Quantitative Ultrasound Assessment of Cartilage Degeneration in Ovariectomized Rats with Low Estrogen Levels. Ultrasound in Medicine and Biology, 2016, 42, 290-298.	0.7	7
67	Pre-Processing of CT Brain Images for Content-Based Image Retrieval. , 2008, , .		6
68	A study on CT sinogram statistical distribution by information divergence theory. , 2011, , .		6
69	Denoising Multi-Channel Images in Parallel MRI by Low Rank Matrix Decomposition. IEEE Transactions on Applied Superconductivity, 2014, 24, 1-5.	1.1	6
70	Brain Image Segmentation Based on Multi-Weight Probability Map. IEEE Access, 2019, 7, 14736-14746.	2.6	6
71	Divergence-Based Magnetic Resonance Electrical Properties Tomography. IEEE Transactions on Biomedical Engineering, 2021, 68, 192-203.	2.5	6
72	Evaluation of the diagnostic value of joint PET myocardial perfusion and metabolic imaging for vascular stenosis in patients with obstructive coronary artery disease. Journal of Nuclear Cardiology, 2021, 28, 3070-3080.	1.4	6

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73	Hierarchical-order multimodal interaction fusion network for grading gliomas. Physics in Medicine and Biology, 2021, 66, 215016.	1.6	6
74	Automatic Segmentation of Coronary Angiograms Based on Probabilistic Tracking. , 2009, , .		5
75	Superâ€resolution reconstruction for 4D computed tomography of the lung via the projections onto convex sets approach. Medical Physics, 2014, 41, 111917.	1.6	5
76	Multimodal Brain-Tumor Segmentation Based on Dirichlet Process Mixture Model with Anisotropic Diffusion and Markov Random Field Prior. Computational and Mathematical Methods in Medicine, 2014, 2014, 1-10.	0.7	5
77	Improved liver mapping by pixelâ€wise curve fitting with adaptive neighborhood regularization. Magnetic Resonance in Medicine, 2018, 80, 792-801.	1.9	5
78	An Efficient Augmented Lagrangian Method for Statistical X-Ray CT Image Reconstruction. PLoS ONE, 2015, 10, e0140579.	1.1	5
79	Automatic correction of the initial rotation angle error improves 3D reconstruction in endoscopic airway optical coherence tomography. Biomedical Optics Express, 2021, 12, 7616.	1.5	5
80	Region Feature Extraction of Brain CT Image for Classification. , 2008, , .		4
81	Liver CT image retrieval based on non-tensor product wavelet. , 2010, , .		4
82	Three-channel receive-only RF coil for vertical-field MR guided focused ultrasound surgery. , 2010, , .		4
83	Image fusion for low-dose computed tomography reconstruction. , 2011, , .		4
84	Sparse angular X-ray cone beam CT image iterative reconstruction using normal-dose scan induced nonlocal prior. , 2012, , .		4
85	A robust electrical conductivity imaging method with total variation and wavelet regularization. Magnetic Resonance Imaging, 2020, 69, 28-39.	1.0	4
86	An adaptive speed term based on generalized fuzzy operator for level set segmentation. , 0, , .		3
87	Unsupervised Segmentation of Medical Image Based on FCM and Mutual Information. , 2007, , .		3
88	Meticulous classification using support vector machine for brain images retrieval. , 2010, , .		3
89	Medical image registration based on phase congruency and RMI. , 2010, , .		3
90	Adaptive image segmentation based on local neighborhood information and Gaussian weighted		3

Chi-square distance. , 2012, , .

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91	A non-parametric method based on NBNN for automatic detection of liver lesion in CT images. , 2013, , .		3
92	lterative image reconstruction for low-dose x-ray CT using a sinogram restoration induced edge-preserving prior. , 2014, , .		3
93	Optimal region-of-interest MRI R2* measurements for the assessment of hepatic iron content in thalassaemia major. Magnetic Resonance Imaging, 2014, 32, 647-653.	1.0	3
94	GRAPPA reconstruction with spatially varying calibration of selfâ€constraint. Magnetic Resonance in Medicine, 2015, 74, 1057-1069.	1.9	3
95	Automatic Segmentation of Myocardium from Black-Blood MR Images Using Entropy and Local Neighborhood Information. PLoS ONE, 2015, 10, e0120018.	1.1	3
96	New metric for optimizing Continuous Loop Averaging Deconvolution (CLAD) sequences under the 1/f noise model. PLoS ONE, 2017, 12, e0175354.	1.1	3
97	Sin-quadratic model for chest tomosynthesis respiratory signal analysis and its application in four dimensional chest tomosynthesis reconstruction. Medical Engineering and Physics, 2018, 52, 59-68.	0.8	3
98	Technical Note: Clusteringâ€based motion compensation scheme for multishot diffusion tensor imaging. Medical Physics, 2018, 45, 5515-5524.	1.6	3
99	Dynamic PET image reconstruction incorporating a median nonlocal means kernel method. Computers in Biology and Medicine, 2021, 139, 104713.	3.9	3
100	Unsupervised segmentation of medical image based on difference of mutual information. Science in China Series F: Information Sciences, 2006, 49, 484-493.	1.1	2
101	Denoising DTI Images Based on Regularized Filter and Fiber Tracking. AIP Conference Proceedings, 2007,	0.3	2
102	Cardiac MR Image Segmentation with Modified Active Contour Model. , 2007, , .		2
103	Medical image segmentation based on level set with new local fitting energy. , 2010, , .		2
104	Metric learning for maximizing MAP and its application to content-based medical image retrieval. , 2011, , .		2
105	Bayesian Image Restoration Using a Large-Scale Total Patch Variation Prior. Mathematical Problems in Engineering, 2011, 2011, 1-15.	0.6	2
106	Penalized weighted alpha-divergence approach to sinogram restoration for low-dose X-ray computed tomography. , 2012, , .		2
107	Dynamic PET image reconstruction using a spatial-temporal edge-preserving prior. , 2013, , .		2
108	PET reconstruction via nonlocal means induced prior. Journal of X-Ray Science and Technology, 2015, 23, 331-348.	0.7	2

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109	Improved Liver R2* Mapping by Averaging Decay Curves. Scientific Reports, 2017, 7, 6158.	1.6	2
110	Early Detection of Tibial Cartilage Degradation and Cancellous Bone Loss in an Ovariectomized Rat Model. BioMed Research International, 2017, 2017, 1-7.	0.9	2
111	elRIS: Eigen-analysis approach for improved spine multi-shot diffusion MRI. Magnetic Resonance Imaging, 2018, 50, 134-140.	1.0	2
112	Morphology-adaptive total variation for the reconstruction of quantitative susceptibility map from the magnetic resonance imaging phase. PLoS ONE, 2018, 13, e0196922.	1.1	2
113	A novel phaseâ€unwrapping method by using phaseâ€jump detection and local surface fitting: application to <scp>D</scp> ixon water–fat <scp>MRI</scp> . Magnetic Resonance in Medicine, 2018, 80, 2630-2640.	1.9	2
114	Radial Motion Estimation of Myocardium in Rats with Myocardial Infarction: A Hybrid Method of FNCCGLAM and Polar Transformation. Ultrasound in Medicine and Biology, 2020, 46, 3413-3425.	0.7	2
115	Dynamic PET Image Reconstruction Incorporating Multiscale Superpixel Clusters. IEEE Access, 2021, 9, 28965-28975.	2.6	2
116	An Improved Exact FBP Algorithm for Image Reconstruction in Cone-beam Helical CT. , 2006, , .		1
117	Image Registration Based on Fuzzy Similarity. , 2007, , .		1
118	Brain CT Database for Content-Based Image Retrieval. , 2008, , .		1
119	A Rapid Elastic Registration Algorithm Based on Hermite Derivative Filter. , 2008, , .		1
120	Wavelet Domain Diffusion for DWI Images. , 2008, , .		1
121	Improved Compound Vector Field Based Active Contours Model. , 2009, , .		1
122	An Improved Helical Cone-Beam CT Image Reconstruction. , 2009, , .		1
123	Fuzzy region content based image retrieval and relevance feedback for medical cerebral image. , 2010, ,		1
124	Improving low-dose X-ray CT images by Weighted Intensity Averaging over Large-scale Neighborhoods. , 2010, , .		1
125	Tumor segmentation using the learned distance metric. , 2011, , .		1
126	Region-specific bag-of-visual-words representations for retrieving brain tumors in contrast-enhanced MRI. , 2012, , .		1

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127	Segmentation of brain magnetic resonance angiography images based on MAP-MRF with multi-pattern neighborhood system. , 2013, , .		1
128	Four dimensional cone-beam computed tomography reconstruction using motion tracking induced regional spatiotemporal sparsity. , 2016, , .		1
129	Enhancement of dynamic myocardial perfusion PET images based on low-rank plus sparse decomposition. Computer Methods and Programs in Biomedicine, 2018, 154, 57-69.	2.6	1
130	Soft Tissue/Bone Decomposition of Conventional Chest Radiographs Using Nonparametric Image Priors. Applied Bionics and Biomechanics, 2019, 2019, 1-17.	0.5	1
131	MR-Based Electrical Conductivity Imaging Using Second-Order Total Generalized Variation Regularization. Applied Sciences (Switzerland), 2020, 10, 7910.	1.3	1
132	Deep Longitudinal Feature Representations for Detection of Postradiotherapy Brain Injury at Presymptomatic Stage. IEEE Access, 2020, 8, 184710-184721.	2.6	1
133	Automated Skull Stripping in Mouse Functional Magnetic Resonance Imaging Analysis Using 3D U-Net. Frontiers in Neuroscience, 2022, 16, 801769.	1.4	1
134	Multiclass segmentation based on generalized fuzzy Gibbs random fields. , 0, , .		0
135	A Novel Method of Correcting the Sinogram Data for Positrion Emission Tomography. , 2007, , .		Ο
136	Bayesian Reconstruction Using A Novel Nonlocal MRF Prior for PET Transmission Tomography. , 2007, ,		0
137	A Novel Nonlocal QuadraticMRF Prior Model for Positron Emission Tomography. , 2007, , .		0
138	An improved super-short-scan reconstruction for fan-beam computed tomography. , 2008, , .		0
139	Diagnosis system of computer-aided brain MRI using content-based image retrieval. , 2008, , .		0
140	Multispectral remote sensing image classification algorithm based on rough set theory. , 2009, , .		0
141	Decoupling of multi-channels RF coil and its application to intraoperative MR-guided focused ultrasound device. , 2010, , .		Ο
142	Cluster-based priors for MAP PET image reconstruction. , 2011, , .		0
143	Numerical optimization of intra-operative RF coil for open vertical-field MRgFUS using hybrid MoM/FDTD method. , 2011, , .		0
144	Inverse design of an organ-oriented RF Coil for the open vertical-field MR-guided focused ultrasound surgery. , 2012, , .		0

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145	An improved ring artifact removal approach for flat-panel detector based computed tomography images. , 2013, , .		Ο
146	Performance evaluation of the Inveon PET scanner using GATE based on the NEMA NU-4 standards. , 2013, , .		0
147	Inter-slice Resolution Improvement of Lung 4D-CT via Adaptively Patch Partition and Sparse Representation. , 2013, , .		Ο
148	Estimating pharmacokinetic parameter maps from breast DCE-MRI with implicit regularization by guided image filtering. , 2014, , .		0
149	Anatomy-guided brain PET imaging incorporating a joint prior model. , 2014, , .		Ο
150	Second order total generalized variation for low-dose computed tomography image reconstruction. , 2014, , .		0
151	Spectral CT image restoration using average image induced nonlocal means filter. , 2014, , .		0
152	Four dimensional cone-beam computed tomography reconstruction using multi-phase projections. , 2016, , .		0
153	Noise suppression for cerebral perfusion CT via intrinsic tensor sparsity regularization: Initial study. , 2016, , .		Ο
154	A simple respiratory motion analysis method for chest tomosynthesis. , 2017, , .		0
155	An Initialization Method of B-Spline Transformation for Medical Atlases Alignment. , 2018, , .		0
156	A Total Variance Regularization Method for Conductivity Imaging Using MR Phase. , 2018, , .		0
157	Dual-modality joint reconstruction of PET-MRI incorporating a cross-guided prior. , 2018, , .		Ο
158	Radiomics analysis of baseline F-FDG PET/CT images for improved prognosis in nasopharyngeal carcinoma. , 2018, , .		0
159	Fracture Nonunion Treated with Low-Intensity Pulsed Ultrasound and Monitored with Ultrasonography: A Feasibility Study. BioMed Research International, 2021, 2021, 1-5.	0.9	0
160	Quantitative Analysis of Reconstructed Conductivity Images Using Phase-based Electrical Properties Method at 3T MR. , 2020, , .		0