Jianhua Yao

List of Publications by Year in descending order

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132	8,296	147566	53109
papers	citations	31 h-index	85 g-index

133	133	133	10863
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Skeletal Muscle Magnetic Resonance Biomarkers in GNE Myopathy. Neurology, 2021, 96, e798-e808.	1.5	18
2	A Machine Learning Algorithm to Estimate Sarcopenia on Abdominal CT. Academic Radiology, 2020, 27, 311-320.	1.3	92
3	Technical and Clinical Factors Affecting Success Rate of a Deep Learning Method for Pancreas Segmentation on CT. Academic Radiology, 2020, 27, 689-695.	1.3	16
4	Artificial Intelligence in Musculoskeletal Imaging: A Paradigm Shift. Journal of Bone and Mineral Research, 2020, 35, 28-35.	3.1	27
5	Deep learning-based muscle segmentation and quantification at abdominal CT: application to a longitudinal adult screening cohort for sarcopenia assessment. British Journal of Radiology, 2019, 92, 20190327.	1.0	86
6	A Semi-Supervised CNN Learning Method with Pseudo-class Labels for Atherosclerotic Vascular Calcification Detection. , 2019, , .		8
7	Use of CT Imaging to Quantify Progression and Response to Treatment in Lymphangioleiomyomatosis. Chest, 2019, 155, 962-971.	0.4	20
8	Automatic Mapping of CT Scan Locations on Computational Human Phantoms for Organ Dose Estimation. Journal of Digital Imaging, 2019, 32, 175-182.	1.6	4
9	Population-based opportunistic osteoporosis screening: Validation of a fully automated CT tool for assessing longitudinal BMD changes. British Journal of Radiology, 2019, 92, 20180726.	1.0	61
10	Chest CT Scan at Radiation Dose of a Posteroanterior and Lateral Chest Radiograph Series. Chest, 2019, 155, 528-533.	0.4	20
11	Cumulative Radiation Exposures from CT Screening and Surveillance Strategies for von Hippel-Lindauâ€“associated Solid Pancreatic Tumors. Radiology, 2019, 290, 116-124.	3.6	7
12	Vascular calcification in patients with large-vessel vasculitis compared to patients with hyperlipidemia. Seminars in Arthritis and Rheumatism, 2019, 48, 1068-1073.	1.6	19
13	Tumor Growth Prediction Using Convolutional Networks. Advances in Computer Vision and Pattern Recognition, 2019, , 239-260.	0.9	0
14	Senataxin Mutation Reveals How R-Loops Promote Transcription by Blocking DNA Methylation at Gene Promoters. Molecular Cell, 2018, 69, 426-437.e7.	4.5	147
15	Mounier-Kuhn Syndrome Mimicking Lymphangioleiomyomatosis. Chest, 2018, 153, e19-e23.	0.4	1
16	Fully automated segmentation and quantification of visceral and subcutaneous fat at abdominal CT: application to a longitudinal adult screening cohort. British Journal of Radiology, 2018, 91, 20170968.	1.0	58
17	Visceral Adiposity in Psoriasis is Associated With Vascular Inflammation by 18F-Fluorodeoxyglucose Positron-Emission Tomography/Computed Tomography Beyond Cardiometabolic Disease Risk Factors in an Observational Cohort Study. JACC: Cardiovascular Imaging, 2018, 11, 349-357.	2.3	26
18	Tracking diaphragm and chest wall movement on cine-MRI. , 2018, , .		0

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19	Clinical and Histopathologic Features of Interstitial Lung Disease in Erdheimâ€“Chester Disease. Journal of Clinical Medicine, 2018, 7, 243.	1.0	11
20	Optimization of a secondary <scp>VOI</scp> protocol for lung imaging in a clinical <scp>CT</scp> scanner. Journal of Applied Clinical Medical Physics, 2018, 19, 271-280.	0.8	5
21	Convolutional Invasion and Expansion Networks for Tumor Growth Prediction. IEEE Transactions on Medical Imaging, 2018, 37, 638-648.	5.4	64
22	Opportunities to Reduce CT Radiation Exposure, Experience Over 5 Years at the NIH Clinical Center. Radiation Protection Dosimetry, 2017, 175, 482-492.	0.4	4
23	Unsupervised Joint Mining of Deep Features and Image Labels for Large-Scale Radiology Image Categorization and Scene Recognition. , 2017, , .		26
24	Zygapophyseal Joint Fusion in Ankylosing Spondylitis Assessed by Computed Tomography: Associations with Syndesmophytes and Spinal Motion. Journal of Rheumatology, 2017, 44, 1004-1010.	1.0	22
25	DeepPap: Deep Convolutional Networks for Cervical Cell Classification. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 1633-1643.	3.9	317
26	Combining fully convolutional networks and graph-based approach for automated segmentation of cervical cell nuclei. , 2017, , .		38
27	Mixed spine metastasis detection through positron emission tomography/computed tomography synthesis and multiclassifier. Journal of Medical Imaging, 2017, 4, 024504.	0.8	8
28	Vertebral Body Compression Fractures and Bone Density: Automated Detection and Classification on CT Images. Radiology, 2017, 284, 788-797.	3.6	119
29	CorteXpert: A model-based method for automatic renal cortex segmentation. Medical Image Analysis, 2017, 42, 257-273.	7.0	23
30	Respiratory magnetic resonance imaging biomarkers in Duchenne muscular dystrophy. Annals of Clinical and Translational Neurology, 2017, 4, 655-662.	1.7	17
31	Adipose Tissue Measurement Using Magnetic Resonance Imaging: A Survey. Current Medical Imaging, 2017, 13, .	0.4	0
32	Holistic segmentation of the lung in cine MRI. Journal of Medical Imaging, 2017, 4, 1.	0.8	9
33	Efficient False Positive Reduction in Computer-Aided Detection Using Convolutional Neural Networks and Random View Aggregation. Advances in Computer Vision and Pattern Recognition, 2017, , 35-48.	0.9	4
34	Learning to Read Chest X-Rays: Recurrent Neural Cascade Model for Automated Image Annotation. , 2016, , .		197
35	A multi-center milestone study of clinical vertebral CT segmentation. Computerized Medical Imaging and Graphics, 2016, 49, 16-28.	3.5	104
36	Osteoporotic and neoplastic compression fracture classification on longitudinal CT. , 2016, , .		9

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37	Identification of muscle and subcutaneous and intermuscular adipose tissue on thigh MRI of muscular dystrophy. , 2016, , .		8
38	Multi-atlas Segmentation with Joint Label Fusion of Osteoporotic Vertebral Compression Fractures on CT. Lecture Notes in Computer Science, 2016, , 74-84.	1.0	7
39	Regional infarction identification from cardiac CT images: a computer-aided biomechanical approach. International Journal of Computer Assisted Radiology and Surgery, 2016, 11, 1573-1583.	1.7	17
40	Spatial distribution of syndesmophytes along the vertebral rim in ankylosing spondylitis: preferential involvement of the posterolateral rim. Annals of the Rheumatic Diseases, 2016, 75, 1951-1957.	0.5	17
41	Improving Computer-Aided Detection Using<?Pub _newline?>Convolutional Neural Networks and Random View Aggregation. IEEE Transactions on Medical Imaging, 2016, 35, 1170-1181.	5.4	465
42	Open-Source Radiation Exposure Extraction Engine (RE3) with Patient-Specific Outlier Detection. Journal of Digital Imaging, 2016, 29, 406-419.	1.6	6
43	Retrieval, visualization, and mining of large radiation dosage data. Information Retrieval, 2016, 19, 38-58.	1.6	3
44	Deep Convolutional Neural Networks for Computer-Aided Detection: CNN Architectures, Dataset Characteristics and Transfer Learning. IEEE Transactions on Medical Imaging, 2016, 35, 1285-1298.	5.4	4,024
45	Automated Detection, Localization, and Classification of Traumatic Vertebral Body Fractures in the Thoracic and Lumbar Spine at CT. Radiology, 2016, 278, 64-73.	3.6	57
46	Computerâ€aided detection of renal calculi from noncontrast CT images using TVâ€flow and MSER features. Medical Physics, 2015, 42, 144-153.	1.6	16
47	Mutation-targeted therapy with sunitinib or everolimus in patients with advanced low-grade or intermediate-grade neuroendocrine tumours of the gastrointestinal tract and pancreas with or without cytoreductive surgery: protocol for a phase II clinical trial. BMJ Open, 2015, 5, e008248-e008248.	0.8	29
48	Automated segmentation of the thyroid gland on thoracic CT scans by multiatlas label fusion and random forest classification. Journal of Medical Imaging, 2015, 2, 044006.	0.8	7
49	Interleaved text/image Deep Mining on a large-scale radiology database. , 2015, , .		52
50	Computer Aided Detection of Bone Metastases in the Thoracolumbar Spine. Lecture Notes in Computational Vision and Biomechanics, 2015, , 97-130.	0.5	3
51	Severity and outcome of cystic lung disease in women with tuberous sclerosis complex. European Respiratory Journal, 2015, 45, 171-180.	3.1	38
52	Quantitative syndesmophyte measurement in ankylosing spondylitis using CT: longitudinal validity and sensitivity to change over 2â€…years. Annals of the Rheumatic Diseases, 2015, 74, 437-443.	0.5	31
53	Tumor growth prediction with reaction-diffusion and hyperelastic biomechanical model by physiological data fusion. Medical Image Analysis, 2015, 25, 72-85.	7.0	27
54	Automated segmentation of the thyroid gland on CT using multi-atlas label fusion and random forest. , 2015, , .		3

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55	Quantitation of Circumferential Syndesmophyte Height along the Vertebral Rim in Ankylosing Spondylitis Using Computed Tomography. Journal of Rheumatology, 2015, 42, 472-478.	1.0	9
56	Dynamics of syndesmophyte growth in AS as measured by quantitative CT: heterogeneity within and among vertebral disc spaces. Rheumatology, 2015, 54, 972-980.	0.9	7
57	Computer-aided detection of exophytic renal lesions on non-contrast CT images. Medical Image Analysis, 2015, 19, 15-29.	7.0	27
58	Automated extraction of anatomic landmarks on vertebrae based on anatomic knowledge and geometrical constraints. , 2014, , .		8
59	Detection and station mapping of mediastinal lymph nodes on thoracic computed tomography using spatial prior from multi-atlas label fusion. , 2014, , .		2
60	Patient specific tumor growth prediction using multimodal images. Medical Image Analysis, 2014, 18, 555-566.	7.0	57
61	Augment low-field intra-operative MRI with preoperative MRI using a hybrid non-rigid registration method. Computer Methods and Programs in Biomedicine, 2014, 117, 114-124.	2.6	3
62	Computer aided detection of epidural masses on computed tomography scans. Computerized Medical Imaging and Graphics, 2014, 38, 606-612.	3.5	9
63	Cortical shell unwrapping for vertebral body abnormality detection on computed tomography. Computerized Medical Imaging and Graphics, 2014, 38, 628-638.	3.5	12
64	Tumor sensitive matching flow: A variational method to detecting and segmenting perihepatic and perisplenic ovarian cancer metastases on contrast-enhanced abdominal CT. Medical Image Analysis, 2014, 18, 725-739.	7.0	13
65	Renal Cortex Segmentation on Computed Tomography. , 2014, , 69-97.		1
66	Automatic Segmentation and Measurement of Pleural Effusions on CT. IEEE Transactions on Biomedical Engineering, 2013, 60, 1834-1840.	2.5	20
67	3D left ventricular extracellular volume fraction by low-radiation dose cardiac CT: Assessment of interstitial myocardial fibrosis. Journal of Cardiovascular Computed Tomography, 2013, 7, 51-57.	0.7	47
68	A framework to measure myocardial extracellular volume fraction using dual-phase low dose CT images. Medical Physics, 2013, 40, 103501.	1.6	6
69	Joint segmentation of anatomical and functional images: Applications in quantification of lesions from PET, PET-CT, MRI-PET, and MRI-PET-CT images. Medical Image Analysis, 2013, 17, 929-945.	7.0	141
70	Tumor growth modeling based on dual phase CT and FDG-PET. , 2013, , .		3
71	Synergistic combination of clinical and imaging features predicts abnormal imaging patterns of pulmonary infections. Computers in Biology and Medicine, 2013, 43, 1241-1251.	3.9	4
72	Glucose Transporter-1 Distribution in Fibrotic Lung Disease. Chest, 2013, 143, 1685-1691.	0.4	47

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73	Augmenting tumor sensitive matching flow to improve detection and segmentation of ovarian cancer metastases within a PDE framework. , 2013, , .		3
74	Automatic anatomical labeling of abdominal arteries for small bowel evaluation on 3D CT scans. , 2013, , .		5
75	Multimodal Image Driven Patient Specific Tumor Growth Modeling. Lecture Notes in Computer Science, 2013, 16, 283-290.	1.0	6
76	A Variational Framework for Joint Detection and Segmentation of Ovarian Cancer Metastases. Lecture Notes in Computer Science, 2013, 16, 83-90.	1.0	4
77	Manifold Diffusion for Exophytic Kidney Lesion Detection on Non-contrast CT Images. Lecture Notes in Computer Science, 2013, 16, 340-347.	1.0	2
78	Detection of Vertebral Body Fractures Based on Cortical Shell Unwrapping. Lecture Notes in Computer Science, 2012, 15, 509-516.	1.0	53
79	CT Grading of Lung Disease in Lymphangioleiomyomatosis. American Journal of Roentgenology, 2012, 199, 787-793.	1.0	30
80	Sclerotic rib metastases detection on routine CT images. , 2012, , .		5
81	Automatic detection and segmentation of abdominopelvic lymph nodes on computed tomography scans. , 2012, , .		1
82	Automatic quantification of Tree-in-Bud patterns from CT scans. , 2012, 2012, 1459-1462.		1
83	Interstitial Myocardial Fibrosis Assessed as Extracellular Volume Fraction with Low-Radiation-Dose Cardiac CT. Radiology, 2012, 264, 876-883.	3.6	159
84	Supine and prone CT colonography registration by matching graphs of teniae coli. , 2012, , .		1
85	ROC-like optimization by sample ranking: Application to CT colonography. , 2012, , .		1
86	Mesenteric vasculature-guided small bowel segmentation on high-resolution 3D CT angiography scans. , 2012, , .		4
87	Computer-assisted detection of infectious lung diseases: A review. Computerized Medical Imaging and Graphics, 2012, 36, 72-84.	3.5	65
88	Automatic Detection and Quantification of Tree-in-Bud (TIB) Opacities From CT Scans. IEEE Transactions on Biomedical Engineering, 2012, 59, 1620-1632.	2.5	29
89	Medical Image Segmentation by Combining Graph Cuts and Oriented Active Appearance Models. IEEE Transactions on Image Processing, 2012, 21, 2035-2046.	6.0	182
90	Co-segmentation of Functional and Anatomical Images. Lecture Notes in Computer Science, 2012, 15, 459-467.	1.0	23

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91	Computer-aided detection of sclerotic bone metastases in the spine using watershed algorithm and support vector machines. , 2011, , .		12
92	Improved 3D automatic segmentation and measurement of pleural effusions. , 2011, , .		1
93	Computer-aided Diagnosis of Pulmonary Infections Using Texture Analysis and Support Vector Machine Classification. Academic Radiology, 2011, 18, 306-314.	1.3	96
94	Detection of pelvic fractures using graph cuts and curvatures. , 2011, , .		3
95	Abdominal multi-organ localization on contrast-enhanced CT based on maximum a posteriori probability and minimum volume overlap. , 2011, , .		3
96	Automated Quantification of High-Resolution CT Scan Findings in Individuals at Risk for Pulmonary Fibrosis. Chest, 2011, 140, 1590-1597.	0.4	46
97	A graph-theoretic approach for segmentation of PET images. , 2011, 2011, 8479-82.		37
98	Prediction of polyp histology on CT colonography using content-based image retrieval. , 2010, , .		3
99	Reversible Projection Technique for Colon Unfolding. IEEE Transactions on Biomedical Engineering, 2010, 57, 2861-2869.	2.5	19
100	Tracking kidney tumor dimensional measurements via image morphing. , 2010, , .		1
101	Content-based image retrieval on CT colonography using rotation and scale invariant features and bag-of-words model. , 2010, , .		12
102	Automated measurement and segmentation of abdominal adipose tissue in MRI. , 2010, , .		5
103	Haustral fold detection for CT colonography images using Gabor filter. , 2010, , .		1
104	Improved method for predicting polyp location from CT colonography for optical colonoscopy. , 2010, , .		1
105	Template method to improve brain segmentation from inhomogeneous brain magnetic resonance images at high fields. , 2010, , .		0
106	Centerline registration of prone and supine CT colonography scans based on correlation optimized warping and anatomical landmarks. , 2009, , .		1
107	Linear measurement of polyps in CT colonography using level sets on 3D surfaces. , 2009, 2009, 3617-20.		1
108	Breast Tumor Analysis in Dynamic Contrast Enhanced MRI Using Texture Features and Wavelet Transform. IEEE Journal on Selected Topics in Signal Processing, 2009, 3, 94-100.	7.3	66

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109	Employing topographical height map in colonic polyp measurement and false positive reduction. Pattern Recognition, 2009, 42, 1029-1040.	5.1	38
110	Reducing the false positive rate of computer aided detection for CT colonography using Content Based Image Retrieval. , 2009, , .		8
111	Statistical Location Model for Abdominal Organ Localization. Lecture Notes in Computer Science, 2009, 12, 9-17.	1.0	14
112	Matching colonic polyps from prone and supine CT colonography scans based on statistical curvature information. , 2008, , .		2
113	Polyp height and width measurement using topographic height map. , 2008, , .		3
114	Performance of a Previously Validated CT Colonography Computer-Aided Detection System in a New Patient Population. American Journal of Roentgenology, 2008, 191, 168-174.	1.0	45
115	3527-3538.	1.6	27
116	Computer-aided grading of lymphangioleiomyomatosis (LAM) using HRCT. , 2008, 2008, 1-4.		11
117	Improved classifier for computerâ€aided polyp detection in CT Colonography by nonlinear dimensionality reduction. Medical Physics, 2008, 35, 1377-1386.	1.6	37
118	Live level set: A hybrid method of livewire and level set for medical image segmentation. Medical Physics, 2008, 35, 4112-4120.	1.6	5
119	Computer Aided Detection of Lytic Bone Metastases in the Spine using Routine CT Images. , 2007, , .		8
120	DETECTION AND SEGMENTATION OF COLONIC POLYPS ON HAUSTRAL FOLDS. , 2007, , .		5
121	Texture-based computer-aided diagnosis system for lung fibrosis. , 2007, , .		10
122	CT Colonography Computer-Aided Polyp Detection using Topographical Height Map. , 2007, , .		4
123	Adaptive deformable model for colonic polyp segmentation and measurement on CT colonography. Medical Physics, 2007, 34, 1655-1664.	1.6	14
124	CT Colonography with Computer-aided Polyp Detection: Volume and Attenuation Thresholds to Reduce False-Positive Findings Owing to the Ileocecal Valve. Radiology, 2006, 241, 426-432.	3.6	22
125	Polyps: Linear and Volumetric Measurement at CT Colonography. Radiology, 2006, 241, 802-811.	3.6	38
126	AN EFFICIENT FEATURE SELECTION ALGORITHM FOR COMPUTER-AIDED POLYP DETECTION. International Journal on Artificial Intelligence Tools, 2006, 15, 893-915.	0.7	11

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127	Colonic Polyp Segmentation in CT Colonography-Based on Fuzzy Clustering and Deformable Models. IEEE Transactions on Medical Imaging, 2004, 23, 1344-1352.	5.4	102
128	A C-Arm Fluoroscopy-Guided Progressive Cut Refinement Strategy Using a Surgical Robot. Computer Aided Surgery, 2000, 5, 373-390.	1.8	40
129	A C-arm fluoroscopy-guided progressive cut refinement strategy using a surgical robot. Computer Aided Surgery, 2000, 5, 373-390.	1.8	22
130	Computer-integrated revision total hip replacement surgery: concept and preliminary results. Medical Image Analysis, 1999, 3, 301-319.	7.0	107
131	Computer aided monitoring of fibrous dysplasia disease in craniofacial bones. , 0, , .		0
132	Automated Spinal Column Extraction and Partitioning. , 0, , .		28