

Yulei Jiang

List of Publications by Year in descending order

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69
papers

2,693
citations

257357

24
h-index

182361

51
g-index

73
all docs

73
docs citations

73
times ranked

2963
citing authors

#	ARTICLE	IF	CITATIONS
1	Improving breast cancer diagnosis with computer-aided diagnosis. <i>Academic Radiology</i> , 1999, 6, 22-33.	1.3	306
2	Prostate Cancer: Differentiation of Central Gland Cancer from Benign Prostatic Hyperplasia by Using Diffusion-weighted and Dynamic Contrast-enhanced MR Imaging. <i>Radiology</i> , 2010, 257, 715-723.	3.6	278
3	A study on several Machine-learning methods for classification of Malignant and benign clustered microcalcifications. <i>IEEE Transactions on Medical Imaging</i> , 2005, 24, 371-380.	5.4	253
4	Quantitative Analysis of Multiparametric Prostate MR Images: Differentiation between Prostate Cancer and Normal Tissue and Correlation with Gleason Score—A Computer-aided Diagnosis Development Study. <i>Radiology</i> , 2013, 267, 787-796.	3.6	229
5	Computer-aided diagnosis in radiology: potential and pitfalls. <i>European Journal of Radiology</i> , 1999, 31, 97-109.	1.2	195
6	Noise injection for training artificial neural networks: A comparison with weight decay and early stopping. <i>Medical Physics</i> , 2009, 36, 4810-4818.	1.6	134
7	Potential of Computer-aided Diagnosis to Reduce Variability in Radiologists' Interpretations of Mammograms Depicting Microcalcifications. <i>Radiology</i> , 2001, 220, 787-794.	3.6	133
8	Kinetic Analysis of Benign and Malignant Breast Lesions With Ultrafast Dynamic Contrast-Enhanced MRI: Comparison With Standard Kinetic Assessment. <i>American Journal of Roentgenology</i> , 2016, 207, 1159-1166.	1.0	98
9	Automated Breast Ultrasound in Breast Cancer Screening of Women With Dense Breasts: Reader Study of Mammography-Negative and Mammography-Positive Cancers. <i>American Journal of Roentgenology</i> , 2016, 206, 1341-1350.	1.0	85
10	Validation of Quantitative Analysis of Multiparametric Prostate MR Images for Prostate Cancer Detection and Aggressiveness Assessment: A Cross-Imager Study. <i>Radiology</i> , 2014, 271, 461-471.	3.6	72
11	Artificial Intelligence Applied to Breast MRI for Improved Diagnosis. <i>Radiology</i> , 2021, 298, 38-46.	3.6	66
12	Targeted Expression of Human Vitamin D Receptor in the Skin Promotes the Initiation of the Postnatal Hair Follicle Cycle and Rescues the Alopecia in Vitamin D Receptor Null Mice. <i>Journal of Investigative Dermatology</i> , 2002, 118, 631-638.	0.3	53
13	Image feature analysis and computer-aided diagnosis in mammography: Reduction of false-positive clustered microcalcifications using local edge-gradient analysis. <i>Medical Physics</i> , 1995, 22, 161-169.	1.6	50
14	Anniversary Paper: Evaluation of medical imaging systems. <i>Medical Physics</i> , 2008, 35, 645-659.	1.6	50
15	Quantitative Multiparametric MRI Features and <i>PTEN</i> Expression of Peripheral Zone Prostate Cancer: A Pilot Study. <i>American Journal of Roentgenology</i> , 2016, 206, 559-565.	1.0	48
16	Components-of-Variance Models for Random-Effects ROC Analysis. <i>Academic Radiology</i> , 2001, 8, 605-615.	1.3	47
17	Interpretation Time Using a Concurrent-Read Computer-Aided Detection System for Automated Breast Ultrasound in Breast Cancer Screening of Women With Dense Breast Tissue. <i>American Journal of Roentgenology</i> , 2018, 211, 452-461.	1.0	41
18	Radial gradient-based segmentation of mammographic microcalcifications: Observer evaluation and effect on CAD performance. <i>Medical Physics</i> , 2004, 31, 2648-2657.	1.6	38

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19	BI-RADS Data Should Not Be Used to Estimate ROC Curves. <i>Radiology</i> , 2010, 256, 29-31.	3.6	37
20	Computer-aided identification of prostatic adenocarcinoma: Segmentation of glandular structures. <i>Journal of Pathology Informatics</i> , 2011, 2, 33.	0.8	37
21	Breast Cancer Detection Rate: Designing Imaging Trials to Demonstrate Improvements. <i>Radiology</i> , 2007, 243, 360-367.	3.6	34
22	Prostate Volumes Derived From MRI and Volume-Adjusted Serum Prostate-Specific Antigen: Correlation With Gleason Score of Prostate Cancer. <i>American Journal of Roentgenology</i> , 2013, 201, 1041-1048.	1.0	31
23	Comparison of Independent Double Readings and Computer-Aided Diagnosis (CAD) for the Diagnosis of Breast Calcifications. <i>Academic Radiology</i> , 2006, 13, 84-94.	1.3	28
24	Short-term reproducibility of apparent diffusion coefficient estimated from diffusion-weighted MRI of the prostate. <i>Abdominal Imaging</i> , 2015, 40, 2523-2528.	2.0	27
25	A study of the effect of noise injection on the training of artificial neural networks. , 2009, , .		23
26	MRI-based prostate volume-adjusted prostate-specific antigen in the diagnosis of prostate cancer. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 42, 1733-1739.	1.9	23
27	The use of a priori information in the detection of mammographic microcalcifications to improve their classification. <i>Medical Physics</i> , 2003, 30, 823-831.	1.6	20
28	An ROC comparison of four methods of combining information from multiple images of the same patient. <i>Medical Physics</i> , 2004, 31, 2552-2563.	1.6	19
29	A new PET/CT volumetric prognostic index for non-small cell lung cancer. <i>Lung Cancer</i> , 2015, 89, 43-49.	0.9	19
30	Effect of correlation on combining diagnostic information from two images of the same patient. <i>Medical Physics</i> , 2005, 32, 3329-3338.	1.6	18
31	Independent Evaluation of Computer Classification of Malignant and Benign Calcifications in Full-Field Digital Mammograms. <i>Academic Radiology</i> , 2007, 14, 363-370.	1.3	18
32	Pilot Study of the Use of Hybrid Multidimensional T2-Weighted Imagingâ€“DWI for the Diagnosis of Prostate Cancer and Evaluation of Gleason Score. <i>American Journal of Roentgenology</i> , 2016, 207, 592-598.	1.0	18
33	<title>Method of extracting signal area and signal thickness of microcalcifications from digital mammograms</title>. , 1992, , .		14
34	Dependence of computer classification of clustered microcalcifications on the correct detection of microcalcifications. <i>Medical Physics</i> , 2001, 28, 1949-1957.	1.6	14
35	Uncertainty in the output of artificial neural networks. <i>IEEE Transactions on Medical Imaging</i> , 2003, 22, 913-921.	5.4	14
36	Diagnosis of Prostate Cancer by Use of MRI-Derived Quantitative Risk Maps: A Feasibility Study. <i>American Journal of Roentgenology</i> , 2019, 213, W66-W75.	1.0	14

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37	A multitarget training method for artificial neural network with application to computer-aided diagnosis. <i>Medical Physics</i> , 2012, 40, 011908.	1.6	11
38	Accuracy of the Vancouver Lung Cancer Risk Prediction Model Compared With That of Radiologists. <i>Chest</i> , 2019, 156, 112-119.	0.4	11
39	Computer-Aided Diagnosis of Breast Cancer in Mammography: Evidence and Potential. <i>Technology in Cancer Research and Treatment</i> , 2002, 1, 211-216.	0.8	10
40	A Quadratic Model for Combining Quantitative Diagnostic Assessments from Radiologist and Computer in Computer-Aided Diagnosis. <i>Academic Radiology</i> , 2006, 13, 140-151.	1.3	10
41	Computer-aided Detection of Prostate Cancer on Tissue Sections. <i>Applied Immunohistochemistry and Molecular Morphology</i> , 2009, 17, 442-450.	0.6	8
42	Segmentation of prostatic glands in histology images. , 2011, , .		8
43	A scaling transformation for classifier output based on likelihood ratio: Applications to a CAD workstation for diagnosis of breast cancer. <i>Medical Physics</i> , 2012, 39, 2787-2804.	1.6	8
44	Classification of Breast Lesions from Mammograms. , 2000, , 341-357.		6
45	Receiver Operating Characteristic (ROC) Analysis of Image Search-and-Localize Tasks. <i>Academic Radiology</i> , 2020, 27, 1742-1750.	1.3	5
46	Multiple-reader studies, digital mammography, computer-aided diagnosis, and the Holy Grail of imaging physics: II. , 2001, 4320, 619.		4
47	Uncertainty in the Output of Artificial Neural Networks. <i>Neural Networks (IJCNN), International Joint Conference on</i> , 2007, , .	0.0	4
48	The Effect of Two Priors on Bayesian Estimation of "Proper" Binormal ROC Curves from Common and Degenerate Datasets. <i>Academic Radiology</i> , 2010, 17, 969-979.	1.3	3
49	ROC Curve for Extremely Subtle Lung Nodules on Chest Radiographs Confirmed by CT Scan. <i>Academic Radiology</i> , 2016, 23, 297-303.	1.3	3
50	Dr Jiang and colleagues respond. <i>Radiology</i> , 1996, 201, 581-582.	3.6	2
51	<title>Optimal method for combining two correlated diagnostic assessments with application to computer-aided diagnosis</title>. , 2001, 4324, 177.		2
52	<title>Analysis of components of variance in multiple-reader studies of computer-aided diagnosis with different tasks</title>. , 2001, , .		2
53	On the Shape of the Population ROC Curve. <i>Academic Radiology</i> , 2013, 20, 897-907.	1.3	2
54	Improving the automated classification of clustered calcifications on mammograms through the improved detection of individual calcifications. , 2002, , .		1

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55	A study of several CAD methods for classification of clustered microcalcifications. , 2005, 5747, 1.		1
56	Comparison of Independent Double Readings and Computer-Aided Diagnosis (CAD) for the Diagnosis of Breast Calcifications. Academic Radiology, 2006, 13, 534-535.	1.3	1
57	Application of artificial neural network and multiple linear regression models for predicting survival time of patients with non-small cell cancer using multiple prognostic factors including FDG-PET measurements. , 2014, , .		1
58	Estimating Screening-Mammography Receiver Operating Characteristic (ROC) Curves from Stratified Random Samples of Screening Mammograms. Academic Radiology, 2015, 22, 580-590.	1.3	1
59	Validating a PET/CT volumetric prognostic index for non-small cell lung cancer.. Journal of Clinical Oncology, 2016, 34, 8516-8516.	0.8	1
60	Computer-Aided Image Analysis and Detection of Prostate Cancer. Advances in Bioinformatics and Biomedical Engineering Book Series, 2012, , 238-256.	0.2	1
61	Benefits of Computer-Aided Diagnosis (CAD) in Mammographic Diagnosis of Malignant and Benign Clustered Microcalcifications. Computational Imaging and Vision, 1998, , 215-220.	0.6	1
62	Automated selection of BI-RADS lesion descriptors for reporting calcifications in mammograms. , 2003, , .		0
63	Training artificial neural networks (ANNs) with multiple target values to reduce output uncertainty. , 2003, , .		0
64	Effect of radiologists' variability on the performance of computer classification of malignant and benign clustered microcalcifications in mammograms. , 2003, 5034, 42.		0
65	Use of BI-RADS lesion descriptors in computer-aided diagnosis of malignant and benign breast lesions. , 2004, , .		0
66	A method for assessing the uncertainty in feature selection tasks. , 2006, 6146, 22.		0
67	Analysis of double reading in an observer study. Proceedings of SPIE, 2009, , .	0.8	0
68	Common Designs of CAD Studies. , 2018, , 374-388.		0
69	Response. Chest, 2019, 156, 810-811.	0.4	0