

# Yongyi Yang

## List of Publications by Year in descending order

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171  
papers

4,922  
citations

159585

30  
h-index

102487

66  
g-index

172  
all docs

172  
docs citations

172  
times ranked

3770  
citing authors

#	ARTICLE	IF	CITATIONS
1	Improving detection accuracy of perfusion defect in standard dose SPECT-myocardial perfusion imaging by deep-learning denoising. Journal of Nuclear Cardiology, 2022, 29, 2340-2349.	2.1	5
2	A Feasibility Study of Motion Compensation for Cardiac Gated Spect Images Using a Cascaded Network. , 2022, , .		1
3	Retrospective fractional dose reduction in Tc-99m cardiac perfusion SPECT/CT patients: A human and model observer study. Journal of Nuclear Cardiology, 2021, 28, 624-637.	2.1	5
4	Deep learning with noise-to-noise training for denoising in SPECT myocardial perfusion imaging. Medical Physics, 2021, 48, 156-168.	3.0	28
5	Improving Diagnostic Accuracy Of Reduced-Dose Studies With Full-Dose Noise-To-Noise Learning In Cardiac Spect. , 2021, , .		2
6	Data-Driven Approach For Respiratory Motion Correction In Cardiac Spect Data. , 2021, , .		1
7	Time-of-year Variation in Intraocular Pressure. Journal of Glaucoma, 2021, Publish Ahead of Print, 952-962.	1.6	3
8	Accounting For Inter-Subject Variations in Deep Learning for Reduced-Dose Studies in Cardiac SPECT. , 2021, , .		1
9	Evaluation of the effect of reducing administered activity on assessment of function in cardiac gated SPECT. Journal of Nuclear Cardiology, 2020, 27, 562-572.	2.1	6
10	Improving Diagnostic Accuracy in Low-Dose SPECT Myocardial Perfusion Imaging With Convolutional Denoising Networks. IEEE Transactions on Medical Imaging, 2020, 39, 2893-2903.	8.9	59
11	Improving perfusion defect detection with respiratory motion correction in cardiac SPECT at standard and reduced doses. Journal of Nuclear Cardiology, 2019, 26, 1526-1538.	2.1	4
12	Limiting Level of False-Positive Detections in Classification of Microcalcification Clusters in Mammograms. , 2019, , .		0
13	Approximate 4D Reconstruction of Cardiac-Gated Spect Images Using a Residual Convolutional Neural Network. , 2019, , .		2
14	Low-Dose Cardiac-Gated Spect Studies Using a Residual Convolutional Neural Network. , 2019, , .		13
15	A Simplified Cohen's Kappa for Use in Binary Classification Data Annotation Tasks. IEEE Access, 2019, 7, 164386-164397.	4.2	24
16	Cardiac motion correction for improving perfusion defect detection in cardiac SPECT at standard and reduced doses of activity. Physics in Medicine and Biology, 2019, 64, 055005.	3.0	7
17	Personalized Models for Injected Activity Levels in SPECT Myocardial Perfusion Imaging. IEEE Transactions on Medical Imaging, 2019, 38, 1466-1476.	8.9	6
18	Prediction of cardiac death after adenosine myocardial perfusion SPECT based on machine learning. Journal of Nuclear Cardiology, 2019, 26, 1746-1754.	2.1	57

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19	Locally adaptive decision in detection of clustered microcalcifications in mammograms. <i>Physics in Medicine and Biology</i> , 2018, 63, 045014.	3.0	1
20	Motion-compensated image reconstruction vs postreconstruction correction in respiratory-binned $\langle \text{scp} \rangle$ SPECT with standard and reduced-dose acquisitions. <i>Medical Physics</i> , 2018, 45, 2991-3000.	3.0	8
21	A context-sensitive deep learning approach for microcalcification detection in mammograms. <i>Pattern Recognition</i> , 2018, 78, 12-22.	8.1	70
22	Investigation of dose reduction in cardiac perfusion SPECT via optimization and choice of the image reconstruction strategy. <i>Journal of Nuclear Cardiology</i> , 2018, 25, 2117-2128.	2.1	35
23	Reducing the effect of false positives in classification of detected clustered microcalcifications. , 2018, , .		1
24	Estimating the Accuracy Level Among Individual Detections in Clustered Microcalcifications. <i>IEEE Transactions on Medical Imaging</i> , 2017, 36, 1162-1171.	8.9	11
25	Morphologic Patterns Formed by the Anomalous Fibers Occurring Along the Anterior Capsule of the Crystalline Lens in People With the Long Anterior Zonule Trait. <i>Anatomical Record</i> , 2017, 300, 1336-1347.	1.4	10
26	Global detection approach for clustered microcalcifications in mammograms using a deep learning network. <i>Journal of Medical Imaging</i> , 2017, 4, 024501.	1.5	25
27	Quantitative comparison of clustered microcalcifications in for-presentation and for-processing mammograms in full-field digital mammography. <i>Medical Physics</i> , 2017, 44, 3726-3738.	3.0	8
28	4-D Reconstruction With Respiratory Correction for Gated Myocardial Perfusion SPECT. <i>IEEE Transactions on Medical Imaging</i> , 2017, 36, 1626-1635.	8.9	20
29	4D reconstruction of cardiac SPECT using a robust spatialtemporal prior. , 2017, , .		1
30	Estimating the level of false positives in detection of microcalcifications in mammogram images. , 2017, , .		0
31	Reconstruction of respiratory-binned cardiac spect using a robust smoothing prior. , 2017, , .		0
32	Evaluation of a strategy to find personalized, patient-specific injected activity levels for SPECT-MPI. , 2017, , .		1
33	Towards personalized injected patient doses for cardiac perfusion SPECT imaging: A retrospective study. , 2016, , .		2
34	Joint motion correction and image reconstruction in respiratory-gated SPECT. , 2016, , .		1
35	Boosted classification of breast cancer by retrieval of cases having similar disease likelihood. , 2016, , .		1
36	Quantitative study of image features of clustered microcalcifications in for-presentation mammograms. , 2016, , .		2

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37	An image-retrieval aided diagnosis system for clustered microcalcifications. , 2016, , .		4
38	Case-based decision strategy using outlier probability in detection of microcalcifications in mammographic lesions. , 2016, , .		0
39	Optimizing motion correction in reconstruction of respiratory-gated spect. , 2016, , .		3
40	Measurement of repeat effects in Chicagoâ€™s criminal social network. Applied Computing and Informatics, 2016, 12, 154-160.	5.9	5
41	Improving the accuracy in detection of clustered microcalcifications with a context-sensitive classification model. Medical Physics, 2015, 43, 159-170.	3.0	22
42	Limited-angle effect compensation for respiratory binned cardiac SPECT. Medical Physics, 2015, 43, 443-454.	3.0	14
43	Quantification of long anterior lens zonules and their resulting zonuleâ€™free zone sizes. Clinical and Experimental Ophthalmology, 2015, 43, 773-775.	2.6	11
44	4D non-local means post-filtering for cardiac gated SPECT. , 2015, , .		4
45	Compensation of acquisition variations in respiratory-gated SPECT with joint statistical reconstruction. , 2015, , .		3
46	Feature saliency analysis for perceptual similarity of clustered microcalcifications. , 2015, , .		4
47	A bilateral analysis scheme for false positive reduction in mammogram mass detection. Computers in Biology and Medicine, 2015, 57, 84-95.	7.0	23
48	Adaboost with dummy-variable modeling for reduction of false positives in detection of clustered microcalcifications. , 2014, , .		1
49	Analysis of perceived similarity between pairs of microcalcification clusters in mammograms. Medical Physics, 2014, 41, 051904.	3.0	11
50	Effects of Piecewise Spatial Smoothing in 4-D SPECT Reconstruction. IEEE Transactions on Nuclear Science, 2014, 61, 182-191.	2.0	2
51	Spatial density modeling for discriminating between benign and malignant microcalcification lesions. , 2013, , .		3
52	Pectoral muscle segmentation in mammograms based on homogenous texture and intensity deviation. Pattern Recognition, 2013, 46, 681-691.	8.1	38
53	Reduction of false positive detection in clustered microcalcifications. , 2013, , .		11
54	4D reconstruction for dual cardiac-respiratory gated SPECT. , 2013, , .		2

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55	4D reconstruction for low-dose cardiac gated SPECT. Medical Physics, 2013, 40, 022501.	3.0	31
56	Gated cardiac SPECT using different motion models. , 2012, , .		0
57	Effects of motion estimation methods on 4D gated cardiac SPECT reconstruction. , 2012, , .		0
58	Utility of 4D reconstruction for low-dose cardiac gated SPECT. , 2012, , .		1
59	Optical flow estimation in gated cardiac SPECT. , 2012, , .		0
60	A quantitative study of motion estimation methods on 4D cardiac gated SPECT reconstruction. Medical Physics, 2012, 39, 5182-5193.	3.0	17
61	Regularized adaptive classification based on image retrieval for clustered microcalcifications. , 2012, , .		0
62	Retrieval boosted computer-aided diagnosis of clustered microcalcifications for breast cancer. Medical Physics, 2012, 39, 676-685.	3.0	12
63	Multispectral Diagnostic Imaging of the Iris in Pigment Dispersion Syndrome. Journal of Glaucoma, 2012, 21, 351-357.	1.6	4
64	A comparison study of image features between FFDM and film mammogram images. Medical Physics, 2012, 39, 4386-4394.	3.0	7
65	Exploiting rotation invariance with SVM classifier for microcalcification detection. , 2012, , .		8
66	Improving SVM classifier with prior knowledge in microcalcification detection1. , 2012, , .		20
67	Effects of piecewise smoothing on cardiac SPECT reconstruction. , 2011, , .		2
68	Direct reconstruction of parametric images from cardiac gated dynamic spect data. , 2011, , .		1
69	Effects of motion, attenuation, and scatter corrections on gated cardiac SPECT reconstruction. Medical Physics, 2011, 38, 6571-6584.	3.0	29
70	An improved periodic optical flow model for cardiac gated image reconstruction. , 2011, , .		3
71	Direct parametric reconstruction of gated dynamic cardiac spect. , 2011, , .		0
72	Total-variation regularized motion estimation in a periodic image sequence. , 2011, , .		0

#	ARTICLE	IF	CITATIONS
73	Detection of clustered microcalcifications using spatial point process modeling. Physics in Medicine and Biology, 2011, 56, 1-17.	3.0	157
74	Adaptive learning for relevance feedback: Application to digital mammography. Medical Physics, 2010, 37, 4432-4444.	3.0	16
75	Detectability of perfusion defect in five-dimensional gated dynamic cardiac SPECT images. Medical Physics, 2010, 37, 5102-5112.	3.0	9
76	Motion-compensated reconstruction of gated cardiac SPECT images using a deformable mesh model. , 2010, , .		3
77	Regularized Fully 5D Reconstruction of Cardiac Gated Dynamic SPECT Images. IEEE Transactions on Nuclear Science, 2010, 57, 1085-1095.	2.0	16
78	Case-adaptive classification based on image retrieval for computer-aided diagnosis. , 2010, , .		3
79	Prostate Cancer Localization With Multispectral MRI Using Cost-Sensitive Support Vector Machines and Conditional Random Fields. IEEE Transactions on Image Processing, 2010, 19, 2444-2455.	9.8	112
80	Supervised and unsupervised methods for prostate cancer segmentation with multispectral MRI. Medical Physics, 2010, 37, 1873-1883.	3.0	109
81	Machine Learning in Medical Imaging. IEEE Signal Processing Magazine, 2010, 27, 25-38.	5.6	260
82	Image retrieval for computer-aided diagnosis of breast cancer. , 2010, , .		2
83	Detectability of perfusion defect in gated dynamic reconstruction images using temporal B-splines. , 2010, , .		0
84	Fully 5d reconstruction of gated dynamic cardiac SPECT images using temporal B-splines. , 2010, , .		0
85	High dynamic range imaging using vector space projection. , 2010, , .		0
86	Cardiac perfusion defect detection using gated dynamic SPECT imaging. , 2009, , .		2
87	Spatial distribution modeling for detection of clustered microcalcifications. , 2009, , .		0
88	Imaging in sitting position may reduce liver artifact in myocardium perfusion imaging. , 2009, , .		0
89	A periodic optical flow model for cardiac gated images. , 2009, , .		2
90	Detectability of perfusion defect in gated dynamic cardiac SPECT images. , 2009, , .		1

#	ARTICLE	IF	CITATIONS
91	A quantitative evaluation study of four-dimensional gated cardiac SPECT reconstruction. <i>Physics in Medicine and Biology</i> , 2009, 54, 5643-5659.	3.0	24
92	Computer-Aided Detection and Diagnosis of Breast Cancer With Mammography: Recent Advances. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2009, 13, 236-251.	3.2	465
93	Learning a Channelized Observer for Image Quality Assessment. <i>IEEE Transactions on Medical Imaging</i> , 2009, 28, 991-999.	8.9	46
94	Prostate Cancer Segmentation With Simultaneous Estimation of Markov Random Field Parameters and Class. <i>IEEE Transactions on Medical Imaging</i> , 2009, 28, 906-915.	8.9	113
95	Learning of Perceptual Similarity From Expert Readers for Mammogram Retrieval. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2009, 3, 53-61.	10.8	23
96	Introduction to the Issue on Digital Image Processing Techniques for Oncology. <i>IEEE Journal on Selected Topics in Signal Processing</i> , 2009, 3, 1-3.	10.8	4
97	Microcalcification classification assisted by content-based image retrieval for breast cancer diagnosis. <i>Pattern Recognition</i> , 2009, 42, 1126-1132.	8.1	87
98	Digital image processing and pattern recognition techniques for the detection of cancer. <i>Pattern Recognition</i> , 2009, 42, 1015-1016.	8.1	8
99	Online learning of relevance feedback from expert readers for mammogram retrieval. , 2009, , .		2
100	Detection of clustered microcalcifications using spatial point process modeling. , 2009, , .		0
101	Novel Observations and Potential Applications Using Digital Infrared Iris Imaging. <i>Ophthalmic Surgery Lasers and Imaging Retina</i> , 2009, 40, 207-216.	0.7	7
102	New Additive Watermark Detectors Based On A Hierarchical Spatially Adaptive Image Model. <i>IEEE Transactions on Information Forensics and Security</i> , 2008, 3, 29-37.	6.9	39
103	4D reconstruction of gated cardiac SPECT using fourier harmonics. , 2008, , .		0
104	Optical flow estimation for a periodic images sequence. , 2008, , .		10
105	Image analysis for detection of coronary artery soft plaques in MDCT images. , 2008, , .		13
106	Spatio-temporal MAP reconstruction of gated cardiac images using DFT basis functions. , 2008, , .		0
107	4D reconstruction of cardiac images using temporal fourier basis functions. , 2008, , .		4
108	4D reconstruction for gated cardiac SPECT using Fourier basis functions. , 2008, , .		0

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109	Coronary artery extraction and analysis for detection of soft plaques in MDCT images. , 2008, , .		5
110	Image segmentation for detection of soft plaques in multidetector CT images. , 2008, , .		2
111	FOUR-DIMENSIONAL RECONSTRUCTION OF GATED CARDIAC SPECT WITH ATTENUATION AND SCATTER COMPENSATION. , 2007, , .		3
112	Reconstruction of gated cardiac SPECT using DFT basis functions. Conference Record of the Asilomar Conference on Signals, Systems and Computers, 2007, , .	0.0	5
113	ADAPTIVE REGULARIZATION USING B-SPLINES FOR GATED DYNAMIC CARDIAC SPECT. , 2007, , .		0
114	Dynamic Image Reconstruction using Temporally Adaptive Regularization for Emission Tomography. , 2007, , .		8
115	Four-dimensional gated cardiac SPECT reconstruction and evaluation study. , 2007, , .		1
116	Effect of Spatial Alignment Transformations in PCA and ICA of Functional Neuroimages. IEEE Transactions on Medical Imaging, 2007, 26, 1058-1068.	8.9	6
117	Tomographic Reconstruction of Dynamic Cardiac Image Sequences. IEEE Transactions on Image Processing, 2007, 16, 932-942.	9.8	35
118	New Detectors for Watermarks with Unknown Power Based on Student-t Image Priors. , 2007, , .		9
119	Bayesian Kernel Methods for Analysis of Functional Neuroimages. IEEE Transactions on Medical Imaging, 2007, 26, 1613-1624.	8.9	13
120	Microcalcification Classification Assisted by Content-Based Image Retrieval for Breast Cancer Diagnosis. , 2007, , .		9
121	Fully 5D reconstruction of gated dynamic cardiac SPECT images. , 2006, , .		5
122	Generalization evaluation of numerical observers for image quality assessment. , 2006, , .		4
123	Fast dynamic image reconstruction for gated cardiac SPECT. , 2006, , .		4
124	Reconstruction of dynamic gated cardiac SPECT. Medical Physics, 2006, 33, 4384-4394.	3.0	12
125	A computed tomography implementation of multiple-image radiography. Medical Physics, 2006, 33, 278-289.	3.0	55
126	Spatiotemporal processing of gated cardiac SPECT images using deformable mesh modeling. Medical Physics, 2005, 32, 2839-2849.	3.0	46



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127	Reconstruction of cardiac-gated dynamic SPECT images. , 2005, , .		5
128	A study on several Machine-learning methods for classification of Malignant and benign clustered microcalcifications. IEEE Transactions on Medical Imaging, 2005, 24, 371-380.	8.9	253
129	Motion-compensated reconstruction of tomographic image sequences. IEEE Transactions on Nuclear Science, 2005, 52, 51-56.	2.0	32
130	Design of tapped-delay line antenna array using vector space projections. IEEE Transactions on Antennas and Propagation, 2005, 53, 4178-4182.	5.1	7
131	Digital watermarking robust to geometric distortions. IEEE Transactions on Image Processing, 2005, 14, 2140-2150.	9.8	214
132	Relevance vector machine for automatic detection of clustered microcalcifications. IEEE Transactions on Medical Imaging, 2005, 24, 1278-1285.	8.9	127
133	TECHNIQUES IN THE DETECTION OF MICROCALCIFICATION CLUSTERS IN DIGITAL MAMMOGRAMS. , 2005, , 45-66.		4
134	Wide-Band Smart Antenna Design Using Vector Space Projection Methods. IEEE Transactions on Antennas and Propagation, 2004, 52, 3228-3236.	5.1	17
135	A Similarity Learning Approach to Content-Based Image Retrieval: Application to Digital Mammography. IEEE Transactions on Medical Imaging, 2004, 23, 1233-1244.	8.9	243
136	Tomographic Image Reconstruction Based on a Content-Adaptive Mesh Model. IEEE Transactions on Medical Imaging, 2004, 23, 202-212.	8.9	71
137	MESH MODELING AND ITS APPLICATIONS IN IMAGE PROCESSING. , 2004, , .		0
138	A fast approach for accurate content-adaptive mesh generation. IEEE Transactions on Image Processing, 2003, 12, 866-881.	9.8	66
139	Segmentation of dynamic PET or fMRI images based on a similarity metric. IEEE Transactions on Nuclear Science, 2003, 50, 1410-1414.	2.0	41
140	A support vector machine approach for detection of microcalcifications. IEEE Transactions on Medical Imaging, 2002, 21, 1552-1563.	8.9	475
141	Design of self-healing arrays using vector-space projections. IEEE Transactions on Antennas and Propagation, 2001, 49, 526-534.	5.1	20
142	Multichannel regularized recovery of compressed video sequences. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2001, 48, 376-387.	2.2	20
143	Removal of compression artifacts using projections onto convex sets and line process modeling. IEEE Transactions on Image Processing, 1997, 6, 1345-1357.	9.8	117
144	Projection-based spatially adaptive reconstruction of block-transform compressed images. IEEE Transactions on Image Processing, 1995, 4, 896-908.	9.8	274

#	ARTICLE	IF	CITATIONS
145	Regularized reconstruction to reduce blocking artifacts of block discrete cosine transform compressed images. IEEE Transactions on Circuits and Systems for Video Technology, 1993, 3, 421-432.	8.3	305
146	Spatially-adaptive temporal smoothing for reconstruction of dynamic and gated image sequences. , 0, , .		7
147	Physical Model of Image Formation in Multiple-Image Radiography. , 0, , .		0
148	Regularized multichannel recovery of compressed video. , 0, , .		3
149	Recovery of speech spectral parameters using convex set projection. , 0, , .		1
150	Image retrieval based on similarity learning. , 0, , .		9
151	Allpass filter design using projection-based method under group delay constraints. , 0, , .		3
152	A fast algorithm for accurate content-adaptive mesh generation. , 0, , .		14
153	Tomographic image reconstruction using content-adaptive mesh modeling. , 0, , .		11
154	A reversible jump Markov chain Monte Carlo algorithm for analysis of functional neuroimages. , 0, , .		1
155	Content-adaptive mesh modeling for fully-3D tomographic image reconstruction. , 0, , .		9
156	A support vector machine approach for detection of microcalcifications in mammograms. , 0, , .		6
157	Preliminary investigation of a multiple-image radiography method. , 0, , .		13
158	Content-based image retrieval for digital mammography. , 0, , .		8
159	Geometric robust watermarking based on a new mesh model correction approach. , 0, , .		20
160	Support vector machine learning for detection of microcalcifications in mammograms. , 0, , .		16
161	Motion-compensated 4D processing of gated SPECT perfusion studies. , 0, , .		4
162	Image sequence segmentation based on a similarity metric. , 0, , .		0

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163	Motion-compensated reconstruction of tomographic image sequences. , 0, , .		0
164	Reversible jump Markov chain Monte Carlo signal detection in functional neuroimaging analysis. , 0, , .		3
165	4D smoothing of gated SPECT images using a left-ventricle shape model and a deformable mesh. , 0, , .		3
166	Reconstruction of Dynamic Gated Cardiac SPECT. , 0, , .		6
167	Motion-Compensated Reconstruction of Dynamic Cardiac Images. , 0, , .		5
168	Fully 4D Reconstruction of Gated Cardiac Images. , 0, , .		0
169	Phase Unwrapping Using Vector Space Projection Methods. , 0, , .		0
170	Learning of Perceptual Similarity from Expert Readers for Mammogram Retrieval. , 0, , .		5
171	Motion-Compensated Dynamic Image Reconstruction for Gated Cardiac Spect. , 0, , .		7