Heang-Ping Chan

List of Publications by Year
in descending order

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423 papers	13,505 citations	16437 64 h-index	30894 102 g-index
430 all docs	430 docs citations	430 times ranked	8426 citing authors

#	Article	IF	Citations
1	Classification of mass and normal breast tissue: a convolution neural network classifier with spatial domain and texture images. IEEE Transactions on Medical Imaging, 1996, 15, 598-610.	5.4	363
2	Improvement in Radiologists?? Detection of Clustered Microcalcifications on Mammograms. Investigative Radiology, 1990, 25, 1102-1110.	3.5	323
3	Deep Learning in Medical Image Analysis. Advances in Experimental Medicine and Biology, 2020, 1213, 3-21.	0.8	300
4	Image feature analysis and computer-aided diagnosis in digital radiography. I. Automated detection of microcalcifications in mammography. Medical Physics, 1987, 14, 538-548.	1.6	280
5	Lung nodule detection on thoracic computed tomography images: Preliminary evaluation of a computer-aided diagnosis system. Medical Physics, 2002, 29, 2552-2558.	1.6	270
6	Improvement of Radiologists' Characterization of Mammographic Masses by Using Computer-aided Diagnosis: An ROC Study. Radiology, 1999, 212, 817-827.	3.6	262
7	Artificial convolution neural network for medical image pattern recognition. Neural Networks, 1995, 8, 1201-1214.	3.3	250
8	Anniversary Paper: History and status of CAD and quantitative image analysis: The role ofMedical Physicsand AAPM. Medical Physics, 2008, 35, 5799-5820.	1.6	250
9	A comparative study of limited-angle cone-beam reconstruction methods for breast tomosynthesis. Medical Physics, 2006, 33, 3781-3795.	1.6	244
10	Mass detection in digital breast tomosynthesis: Deep convolutional neural network with transfer learning from mammography. Medical Physics, 2016, 43, 6654-6666.	1.6	232
11	Computer-aided classification of mammographic masses and normal tissue: linear discriminant analysis in texture feature space. Physics in Medicine and Biology, 1995, 40, 857-876.	1.6	203
12	Urinary bladder segmentation in CT urography using deepâ€learning convolutional neural network and level sets. Medical Physics, 2016, 43, 1882-1896.	1.6	192
13	Computerized analysis of mammographic microcalcifications in morphological and texture feature spaces. Medical Physics, 1998, 25, 2007-2019.	1.6	184
14	Computer-aided diagnosis of pulmonary nodules on CT scans: Segmentation and classification using 3D active contours. Medical Physics, 2006, 33, 2323-2337.	1.6	184
15	Computer-aided detection of mammographic microcalcifications: Pattern recognition with an artificial neural network. Medical Physics, 1995, 22, 1555-1567.	1.6	180
16	Computerized characterization of masses on mammograms: The rubber band straightening transform and texture analysis. Medical Physics, 1998, 25, 516-526.	1.6	179
17	An adaptive density-weighted contrast enhancement filter for mammographic breast mass detection. IEEE Transactions on Medical Imaging, 1996, 15, 59-67.	5.4	172
18	Improvement of mammographic mass characterization using spiculation measures and morphological features. Medical Physics, 2001, 28, 1455-1465.	1.6	166

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19	Computerized image analysis: Estimation of breast density on mammograms. Medical Physics, 2001, 28, 1056-1069.	1.6	157
20	Computerâ€aided diagnosis in the era of deep learning. Medical Physics, 2020, 47, e218-e227.	1.6	154
21	Computer-aided characterization of mammographic masses: accuracy of mass segmentation and its effects on characterization. IEEE Transactions on Medical Imaging, 2001, 20, 1275-1284.	5.4	152
22	Multi-task transfer learning deep convolutional neural network: application to computer-aided diagnosis of breast cancer on mammograms. Physics in Medicine and Biology, 2017, 62, 8894-8908.	1.6	151
23	Breast Cancer Diagnosis in Digital Breast Tomosynthesis: Effects of Training Sample Size on Multi-Stage Transfer Learning Using Deep Neural Nets. IEEE Transactions on Medical Imaging, 2019, 38, 686-696.	5.4	147
24	Bladder Cancer Treatment Response Assessment in CT using Radiomics with Deep-Learning. Scientific Reports, 2017, 7, 8738.	1.6	144
25	Digital Breast Tomosynthesis Is Comparable to Mammographic Spot Views for Mass Characterization. Radiology, 2012, 262, 61-68.	3.6	142
26	Digital Mammography. Investigative Radiology, 1987, 22, 581-589.	3.5	136
27	Classifier design for computer-aided diagnosis: Effects of finite sample size on the mean performance of classical and neural network classifiers. Medical Physics, 1999, 26, 2654-2668.	1.6	135
28	Mammographic Density Measured with Quantitative Computer-aided Method: Comparison with Radiologists' Estimates and BI-RADS Categories. Radiology, 2006, 240, 656-665.	3.6	128
29	Malignant and Benign Breast Masses on 3D US Volumetric Images: Effect of Computer-aided Diagnosis on Radiologist Accuracy. Radiology, 2007, 242, 716-724.	3.6	128
30	Computerâ€aided diagnosis of pulmonary nodules on CT scans: Improvement of classification performance with nodule surface features. Medical Physics, 2009, 36, 3086-3098.	1.6	128
31	Computerized classification of malignant and benign microcalcifications on mammograms: texture analysis using an artificial neural network. Physics in Medicine and Biology, 1997, 42, 549-567.	1.6	125
32	Image feature selection by a genetic algorithm: Application to classification of mass and normal breast tissue. Medical Physics, 1996, 23, 1671-1684.	1.6	115
33	Computer-aided Detection System for Breast Masses on Digital Tomosynthesis Mammograms: Preliminary Experience. Radiology, 2005, 237, 1075-1080.	3.6	114
34	Feature selection and classifier performance in computer-aided diagnosis: The effect of finite sample size. Medical Physics, 2000, 27, 1509-1522.	1.6	112
35	Improvement of computerized mass detection on mammograms: Fusion of two-view information. Medical Physics, 2002, 29, 238-247.	1.6	109
36	Genome-wide association study identifies multiple loci associated with both mammographic density and breast cancer risk. Nature Communications, 2014, 5, 5303.	5.8	109

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37	Sensitivity of Noncommercial Computer-aided Detection System for Mammographic Breast Cancer Detection: Pilot Clinical Trial. Radiology, 2004, 231, 208-214.	3.6	107
38	Effect of CAD on Radiologists' Detection of Lung Nodules on Thoracic CT Scans: Analysis of an Observer Performance Study by Nodule Size. Academic Radiology, 2009, 16, 1518-1530.	1.3	107
39	Correlation between mammographic density and volumetric fibroglandular tissue estimated on breast MR images. Medical Physics, 2004, 31, 933-942.	1.6	106
40	Automated detection of breast masses on mammograms using adaptive contrast enhancement and texture classification. Medical Physics, 1996, 23, 1685-1696.	1.6	103
41	087001.	1.6	102
42	Evaluation of the transmitted exposure through lead equivalent aprons used in a radiology department, including the contribution from backscatter. Medical Physics, 2003, 30, 1033-1038.	1.6	101
43	CAD and AI for breast cancerâ€"recent development and challenges. British Journal of Radiology, 2020, 93, 20190580.	1.0	100
44	Classification of mass and normal breast tissue on digital mammograms: Multiresolution texture analysis. Medical Physics, 1995, 22, 1501-1513.	1.6	98
45	Combined adaptive enhancement and region-growing segmentation of breast masses on digitized mammograms. Medical Physics, 1999, 26, 1642-1654.	1.6	95
46	Improvement in Radiologistsâ€™ Characterization of Malignant and Benign Breast Masses on Serial Mammograms with Computer-aided Diagnosis: An ROC Study. Radiology, 2004, 233, 255-265.	3.6	93
47	Classifier performance prediction for computerâ€aided diagnosis using a limited dataset. Medical Physics, 2008, 35, 1559-1570.	1.6	93
48	Characterization of mammographic masses based on level set segmentation with new image features and patient information. Medical Physics, 2008, 35, 280-290.	1.6	92
49	Computer-aided detection of breast masses on full field digital mammograms. Medical Physics, 2005, 32, 2827-2838.	1.6	91
50	The Estimation of Occupational Effective Dose in Diagnostic Radiology With Two Dosimeters. Health Physics, 1994, 67, 611-615.	0.3	85
51	Physical characteristics of scattered radiation in diagnostic radiology: Monte Carlo simulation studies. Medical Physics, 1985, 12, 152-165.	1.6	83
52	Computer-aided detection of masses in digital tomosynthesis mammography: Comparison of three approaches. Medical Physics, 2008, 35, 4087-4095.	1.6	81
53	Urinary bladder cancer staging in <scp>CT</scp> urography using machine learning. Medical Physics, 2017, 44, 5814-5823.	1.6	79
54	Assessment methodologies and statistical issues for computer-aided diagnosis of lung nodules in computed tomography. Academic Radiology, 2004, 11, 462-475.	1.3	76

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55	Breast Cancer Detection: Evaluation of a Mass-Detection Algorithm for Computer-aided Diagnosisâ€"Experience in 263 Patients. Radiology, 2002, 224, 217-224.	3.6	75
56	Association of Computerized Mammographic Parenchymal Pattern Measure with Breast Cancer Risk: A Pilot Case-Control Study. Radiology, 2011, 260, 42-49.	3.6	75
57	Computer-aided detection of lung nodules: False positive reduction using a 3D gradient field method and 3D ellipsoid fitting. Medical Physics, 2005, 32, 2443-2454.	1.6	74
58	Evolutionary pruning of transfer learned deep convolutional neural network for breast cancer diagnosis in digital breast tomosynthesis. Physics in Medicine and Biology, 2018, 63, 095005.	1.6	74
59	Energy and angular dependence of x-ray absorption and its effect on radiographic response in screen-film systems. Physics in Medicine and Biology, 1983, 28, 565-579.	1.6	72
60	Computer aided detection of clusters of microcalcifications on full field digital mammograms. Medical Physics, 2006, 33, 2975-2988.	1.6	72
61	Automatic multiscale enhancement and segmentation of pulmonary vessels in CT pulmonary angiography images for CAD applications. Medical Physics, 2007, 34, 4567-4577.	1.6	72
62	Computer-Aided Diagnosis of Lung Cancer and Pulmonary Embolism in Computed Tomographyâ€"A Review. Academic Radiology, 2008, 15, 535-555.	1.3	71
63	Digitization requirements in mammography: Effects on computer-aided detection of microcalcifications. Medical Physics, 1994, 21, 1203-1211.	1.6	67
64	Computerized characterization of breast masses on three-dimensional ultrasound volumes. Medical Physics, 2004, 31, 744-754.	1.6	66
65	Analysis of temporal changes of mammographic features: Computer-aided classification of malignant and benign breast masses. Medical Physics, 2001, 28, 2309-2317.	1.6	65
66	Combination of Digital Mammography with Semi-automated 3D Breast Ultrasound. Technology in Cancer Research and Treatment, 2004, 3, 325-334.	0.8	64
67	Bladder Cancer Segmentation in CT for Treatment Response Assessment: Application of Deep-Learning Convolution Neural Networkâ€"A Pilot Study. Tomography, 2016, 2, 421-429.	0.8	64
68	Optimal Neural Network Architecture Selection. Academic Radiology, 2002, 9, 420-429.	1.3	63
69	Classification of malignant and benign masses based on hybrid ART2LDA approach. IEEE Transactions on Medical Imaging, 1999, 18, 1178-1187.	5.4	62
70	Investigation of the performance of antiscatter grids: Monte Carlo simulation studies. Physics in Medicine and Biology, 1982, 27, 785-803.	1.6	61
71	Standardization in Quantitative Imaging: A Multicenter Comparison of Radiomic Features from Different Software Packages on Digital Reference Objects and Patient Data Sets. Tomography, 2020, 6, 118-128.	0.8	61
72	Computer-aided diagnosis in chest radiology. Journal of Thoracic Imaging, 1990, 5, 67-76.	0.8	56

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73	Preliminary Investigation of Computer-aided Detection of Pulmonary Embolism in Three-dimensional Computed Tomography Pulmonary Angiography Images1. Academic Radiology, 2005, 12, 782-792.	1.3	55
74	Novel Associations between Common Breast Cancer Susceptibility Variants and Risk-Predicting Mammographic Density Measures. Cancer Research, 2015, 75, 2457-2467.	0.4	55
75	Computer-aided diagnosis in mammography: classification of mass and normal tissue by texture analysis. Physics in Medicine and Biology, 1994, 39, 2273-2288.	1.6	54
76	Effect of finite sample size on feature selection and classification: A simulation study. Medical Physics, 2010, 37, 907-920.	1.6	53
77	False-positive reduction technique for detection of masses on digital mammograms: Global and local multiresolution texture analysis. Medical Physics, 1997, 24, 903-914.	1.6	52
78	Effect of CT scanning parameters on volumetric measurements of pulmonary nodules by 3D active contour segmentation: a phantom study. Physics in Medicine and Biology, 2008, 53, 1295-1312.	1.6	52
79	Studies of performance of antiscatter grids in digital radiography: Effect on signal-to-noise ratio. Medical Physics, 1990, 17, 655-664.	1.6	50
80	Advances in computer-aided diagnosis for breast cancer. Current Opinion in Obstetrics and Gynecology, 2006, 18, 64-70.	0.9	50
81	Uâ€Net based deep learning bladder segmentation in <scp>CT</scp> urography. Medical Physics, 2019, 46, 1752-1765.	1.6	50
82	Design of a high-sensitivity classifier based on a genetic algorithm: application to computer-aided diagnosis. Physics in Medicine and Biology, 1998, 43, 2853-2871.	1.6	49
83	Computer-aided detection of clustered microcalcifications in digital breast tomosynthesis: A 3D approach. Medical Physics, 2011, 39, 28-39.	1.6	49
84	Studies of x-ray energy absorption and quantum noise properties of x-ray screens by use of Monte Carlo simulation. Medical Physics, 1984, 11, 37-46.	1.6	48
85	Automated coronary artery tree extraction in coronary CT angiography using a multiscale enhancement and dynamic balloon tracking (MSCAR-DBT) method. Computerized Medical Imaging and Graphics, 2012, 36, 1-10.	3.5	48
86	Bilateral analysis based false positive reduction for computerâ€aided mass detection. Medical Physics, 2007, 34, 3334-3344.	1.6	47
87	Digital Breast Tomosynthesis: Observer Performance of Clustered Microcalcification Detection on Breast Phantom Images Acquired with an Experimental System Using Variable Scan Angles, Angular Increments, and Number of Projection Views. Radiology, 2014, 273, 675-685.	3.6	47
88	Diagnostic Accuracy of CT for Prediction of Bladder Cancer Treatment Response with and without Computerized Decision Support. Academic Radiology, 2019, 26, 1137-1145.	1.3	46
89	Computerâ€aided detection of breast masses on mammograms: Dual system approach with twoâ€view analysis. Medical Physics, 2009, 36, 4451-4460.	1.6	45
90	Computer-aided assessment of breast density: comparison of supervised deep learning and feature-based statistical learning. Physics in Medicine and Biology, 2018, 63, 025005.	1.6	44

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91	Monte Carlo simulation studies of detectors used in the measurement of diagnostic x-ray spectra. Medical Physics, 1980, 7, 627-635.	1.6	43
92	Breast Masses: Computer-aided Diagnosis with Serial Mammograms. Radiology, 2006, 240, 343-356.	3.6	43
93	A regional registration technique for automated interval change analysis of breast lesions on mammograms. Medical Physics, 1999, 26, 2669-2679.	1.6	41
94	Automated volume analysis of head and neck lesions on CT scans using 3D level set segmentation. Medical Physics, 2007, 34, 4399-4408.	1.6	39
95	Computer-Aided Diagnosis of Lung Nodules on CT Scans:. Academic Radiology, 2010, 17, 323-332.	1.3	39
96	Comparison of similarity measures for the task of template matching of masses on serial mammograms. Medical Physics, 2005, 32, 515-529.	1.6	38
97	Deep Learning Approach for Assessment of Bladder Cancer Treatment Response. Tomography, 2019, 5, 201-208.	0.8	38
98	Performance of antiscatter grids in diagnostic radiology: Experimental measurements and Monte Carlo simulation studies. Medical Physics, 1985, 12, 449-454.	1.6	37
99	Digital breast tomosynthesis: studies of the effects of acquisition geometry on contrast-to-noise ratio and observer preference of low-contrast objects in breast phantom images. Physics in Medicine and Biology, 2014, 59, 5883-5902.	1.6	37
100	Computerized nipple identification for multiple image analysis in computer-aided diagnosis. Medical Physics, 2004, 31, 2871-2882.	1.6	36
101	Accuracy of the CT numbers of simulated lung nodules imaged with multi-detector CT scanners. Medical Physics, 2006, 33, 3006-3017.	1.6	36
102	Automated iterative neutrosophic lung segmentation for image analysis in thoracic computed tomography. Medical Physics, 2013, 40, 081912.	1.6	36
103	Analysis of Uncertainties in Estimates of Components of Variance in Multivariate ROC Analysis. Academic Radiology, 2001, 8, 616-622.	1.3	35
104	Selectiveâ€diffusion regularization for enhancement of microcalcifications in digital breast tomosynthesis reconstruction. Medical Physics, 2010, 37, 6003-6014.	1.6	35
105	A new automated method for the segmentation and characterization of breast masses on ultrasound images. Medical Physics, 2009, 36, 1553-1565.	1.6	34
106	Classification of compressed breast shapes for the design of equalization filters in x-ray mammography. Medical Physics, 1998, 25, 937-948.	1.6	33
107	Dual system approach to computer-aided detection of breast masses on mammograms. Medical Physics, 2006, 33, 4157-4168.	1.6	33
108	Image quality of microcalcifications in digital breast tomosynthesis: Effects of projection-view distributions. Medical Physics, 2011, 38, 5703-5712.	1.6	33

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109	Joint two-view information for computerized detection of microcalcifications on mammograms. Medical Physics, 2006, 33, 2574-2585.	1.6	32
110	Digital breast tomosynthesis: computer-aided detection of clustered microcalcifications on planar projection images. Physics in Medicine and Biology, 2014, 59, 7457-7477.	1.6	32
111	Basic Imaging Properties of a Large Image Intensifier-TV Digital Chest Radiographic System. Investigative Radiology, 1987, 22, 328-335.	3.5	31
112	Adverse Effects of Increased Body Weight on Quantitative Measures of Mammographic Image Quality. American Journal of Roentgenology, 2000, 175, 805-810.	1.0	31
113	Auto-Initialized Cascaded Level Set (AI-CALS) Segmentation of Bladder Lesions on Multidetector Row CT Urography. Academic Radiology, 2013, 20, 148-155.	1.3	31
114	Image compression in digital mammography: Effects on computerized detection of subtle microcalcifications. Medical Physics, 1996, 23, 1325-1336.	1.6	29
115	Automated registration of breast lesions in temporal pairs of mammograms for interval change analysis-local affine transformation for improved localization. Medical Physics, 2001, 28, 1070-1079.	1.6	29
116	Multi-modality CADx. Academic Radiology, 2009, 16, 810-818.	1.3	29
117	Investigation of basic imaging properties in digital radiography. 5. Characteristic curves of II-TV digital systems. Medical Physics, 1986, 13, 13-18.	1.6	28
118	Characterization of masses in digital breast tomosynthesis: Comparison of machine learning in projection views and reconstructed slices. Medical Physics, 2010, 37, 3576-3586.	1.6	28
119	Computer-aided detection system for clustered microcalcifications in digital breast tomosynthesis using joint information from volumetric and planar projection images. Physics in Medicine and Biology, 2015, 60, 8457-8479.	1.6	28
120	Deep-learning convolution neural network for computer-aided detection of microcalcifications in digital breast tomosynthesis. Proceedings of SPIE, 2016, , .	0.8	28
121	Explainable AI for medical imaging: deep-learning CNN ensemble for classification of estrogen receptor status from breast MRI. , 2020, , .		28
122	Automated Tracking Of The Vascular Tree In DSA Images Using A Double-Square-Box Region-Of-Search Algorithm. , 1986, 0626, 326.		27
123	Artifact Reduction Methods for Truncated Projections in Iterative Breast Tomosynthesis Reconstruction. Journal of Computer Assisted Tomography, 2009, 33, 426-435.	0.5	27
124	<title>An Empirical Investigation Of Variability In Contrast-Detail Diagram Measurements</title>. Proceedings of SPIE, 1983, 0419, 68.	0.8	25
125	Application of boundary detection information in breast tomosynthesis reconstruction. Medical Physics, 2007, 34, 3603-3613.	1.6	25
126	Classifier performance estimation under the constraint of a finite sample size: Resampling schemes applied to neural network classifiers. Neural Networks, 2008, 21, 476-483.	3.3	25

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127	Computerâ€aided detection of breast masses: Fourâ€view strategy for screening mammography. Medical Physics, 2011, 38, 1867-1876.	1.6	25
128	Aromatase inhibitor-induced modulation of breast density: clinical and genetic effects. British Journal of Cancer, 2013, 109, 2331-2339.	2.9	25
129	Computerâ€aided detection of clustered microcalcifications in multiscale bilateral filtering regularized reconstructed digital breast tomosynthesis volume. Medical Physics, 2014, 41, 021901.	1.6	25
130	Digital Mammography. Academic Radiology, 2001, 8, 454-466.	1.3	24
131	Selection of an optimal neural network architecture for computer-aided detection of microcalcifications-Comparison of automated optimization techniques. Medical Physics, 2001, 28, 1937-1948.	1.6	24
132	Pulmonary nodule registration in serial CT scans based on rib anatomy and nodule template matching. Medical Physics, 2007, 34, 1336-1347.	1.6	24
133	Computer-Aided Detection Systems for Breast Masses: Comparison of Performances on Full-Field Digital Mammograms and Digitized Screen-Film Mammograms. Academic Radiology, 2007, 14, 659-669.	1.3	24
134	Similarity evaluation in a contentâ€based image retrieval (CBIR) CADx system for characterization of breast masses on ultrasound images. Medical Physics, 2011, 38, 1820-1831.	1.6	24
135	AI in medical physics: guidelines for publication. Medical Physics, 2021, 48, 4711-4714.	1.6	24
136	Automated Tracking and Computer Reproduction of Vessels in DSA Images. Investigative Radiology, 1990, 25, 1069-1075.	3.5	23
137	Phototimer setup for CR imaging. Medical Physics, 2000, 27, 2652-2658.	1.6	23
138	Computerized detection of noncalcified plaques in coronary CT angiography: Evaluation of topological soft gradient prescreening method and luminal analysis. Medical Physics, 2014, 41, 081901.	1.6	23
139	Generalization error analysis for deep convolutional neural network with transfer learning in breast cancer diagnosis. Physics in Medicine and Biology, 2020, 65, 105002.	1.6	23
140	Investigation of basic imaging properties in digital radiography. 8. Detection of simulated low-contrast objects in digital subtraction angiographic images. Medical Physics, 1986, 13, 304-311.	1.6	22
141	Effects of x-ray beam equalization on mammographic imaging. Medical Physics, 1990, 17, 242-249.	1.6	22
142	Treatment response assessment of breast masses on dynamic contrastâ€enhanced magnetic resonance scans using fuzzy â€means clustering and level set segmentation. Medical Physics, 2009, 36, 5052-5063.	1.6	22
143	Quality assurance and training procedures for computerâ€aided detection and diagnosis systems in	1.6	22
144	Characterization of Breast Masses in Digital Breast Tomosynthesis and Digital Mammograms. Academic Radiology, 2017, 24, 1372-1379.	1.3	22

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145	Breast Mass Characterization Using 3â€Dimensional Automated Ultrasound as an Adjunct to Digital Breast Tomosynthesis. Journal of Ultrasound in Medicine, 2013, 32, 93-104.	0.8	22
146	Computer-aided detection of pulmonary embolism in computed tomographic pulmonary angiography (CTPA): Performance evaluation with independent data sets. Medical Physics, 2009, 36, 3385-3396.	1.6	21
147	Radiation dose in diagnostic radiology: Monte Carlo simulation studies. Medical Physics, 1984, 11, 480-490.	1.6	20
148	<title>Finite-sample effects and resampling plans: applications to linear classifiers in computer-aided diagnosis</title>. , 1997, 3034, 467.		20
149	ROC study of the effect of stereoscopic imaging on assessment of breast lesions. Medical Physics, 2005, 32, 1001-1009.	1.6	20
150	Computer-aided detection system for clustered microcalcifications: comparison of performance on full-field digital mammograms and digitized screen-film mammograms. Physics in Medicine and Biology, 2007, 52, 981-1000.	1.6	20
151	Multiscale bilateral filtering for improving image quality in digital breast tomosynthesis. Medical Physics, 2015, 42, 182-195.	1.6	20
152	Design of three-class classifiers in computer-aided diagnosis: Monte Carlo simulation study. , 2003, , .		19
153	Computerized detection of pulmonary embolism in 3D computed tomographic (CT) images: vessel tracking and segmentation techniques. , 2003, , .		19
154	Quasi-Continuous and Discrete Confidence Rating Scales for Observer Performance Studies. Academic Radiology, 2007, 14, 38-48.	1.3	19
155	Performance Analysis of Three-Class Classifiers: Properties of a 3-D ROC Surface and the Normalized Volume Under the Surface for the Ideal Observer. IEEE Transactions on Medical Imaging, 2008, 27, 215-227.	5.4	19
156	Analysis of computer-aided detection techniques and signal characteristics for clustered microcalcifications on digital mammography and digital breast tomosynthesis. Physics in Medicine and Biology, 2016, 61, 7092-7112.	1.6	19
157	Deep Convolutional Neural Network With Adversarial Training for Denoising Digital Breast Tomosynthesis Images. IEEE Transactions on Medical Imaging, 2021, 40, 1805-1816.	5.4	19
158	Dynamic Digital Subtraction Evaluation of Regional Pulmonary Ventilation with Nonradioactive Xenon. Investigative Radiology, 1990, 25, 728-734.	3.5	17
159	Automated segmentation of regions of interest on hand radiographs. Medical Physics, 1994, 21, 1293-1300.	1.6	17
160	High-speed large-angle mammography tomosynthesis system. , 2006, , .		17
161	Mammographic Breast Densityâ€"Evidence for Genetic Correlations with Established Breast Cancer Risk Factors. Cancer Epidemiology Biomarkers and Prevention, 2008, 17, 3509-3516.	1.1	17
162	Multichannel response analysis on 2D projection views for detection of clustered microcalcifications in digital breast tomosynthesis. Medical Physics, 2014, 41, 041913.	1.6	17

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163	Semiâ€automated pulmonary nodule interval segmentation using the <scp>NLST</scp> data. Medical Physics, 2018, 45, 1093-1107.	1.6	17
164	Detector Blur and Correlated Noise Modeling for Digital Breast Tomosynthesis Reconstruction. IEEE Transactions on Medical Imaging, 2018, 37, 116-127.	5.4	17
165	Experimental and theoretical energy and angular dependencies of scattered radiation in the mammography energy range. Medical Physics, 1983, 10, 664-668.	1.6	16
166	Some properties of photon scattering in water phantoms in diagnostic radiology. Medical Physics, 1986, 13, 824-830.	1.6	16
167	Dynamic multiple thresholding breast boundary detection algorithm for mammograms. Medical Physics, 2010, 37, 391-401.	1.6	16
168	Computerized image analysis: Textureâ€field orientation method for pectoral muscle identification on MLOâ€view mammograms. Medical Physics, 2010, 37, 2289-2299.	1.6	16
169	Treatment Response Assessment of Head and Neck Cancers on CT Using Computerized Volume Analysis. American Journal of Neuroradiology, 2010, 31, 1744-1751.	1.2	16
170	Risks of feature leakage and sample size dependencies in deep feature extraction for breast mass classification. Medical Physics, 2021, 48, 2827-2837.	1.6	16
171	Effect of CAD on radiologists' detection of lung nodules on thoracic CT scans: observer performance study. , 2007, , .		15
172	A diffusion-based truncated projection artifact reduction method for iterative digital breast tomosynthesis reconstruction. Physics in Medicine and Biology, 2013, 58, 569-587.	1.6	15
173	CT urography: segmentation of urinary bladder using CLASS with local contour refinement. Physics in Medicine and Biology, 2014, 59, 2767-2785.	1.6	15
174	Deepâ€learning convolutional neural network: Inner and outer bladder wall segmentation in CT urography. Medical Physics, 2019, 46, 634-648.	1.6	15
175	Stereomammography: Evaluation of depth perception using a virtual 3D cursor. Medical Physics, 2000, 27, 1305-1310.	1.6	14
176	The effect of nodule segmentation on the accuracy of computerized lung nodule detection on CT scans: comparison on a data set annotated by multiple radiologists. , 2007, , .		13
177	Automated regional registration and characterization of corresponding microcalcification clusters on temporal pairs of mammograms for interval change analysis. Medical Physics, 2008, 35, 5340-5350.	1.6	13
178	Head and Neck Cancers on CT: Preliminary Study of Treatment Response Assessment Based on Computerized Volume Analysis. American Journal of Roentgenology, 2010, 194, 1083-1089.	1.0	13
179	Intraobserver Variability in Bladder Cancer Treatment Response Assessment With and Without Computerized Decision Support. Tomography, 2020, 6, 194-202.	0.8	13
180	The effects of stereo shift angle, geometric magnification and display zoom on depth measurements in digital stereomammography. Medical Physics, 2002, 29, 2725-2734.	1.6	12

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181	On the repeated use of databases for testing incremental improvement of computer-aided detection schemes. Academic Radiology, 2004, 11, 103-105.	1.3	12
182	Tomosynthesis reconstruction using the simultaneous algebraic reconstruction technique (SART) on breast phantom data. , 2006, 6142, 1391.		12
183	Urinary bladder segmentation in CT urography (CTU) using CLASS. Medical Physics, 2013, 40, 111906.	1.6	12
184	Computerized analysis of coronary artery disease: Performance evaluation of segmentation and tracking of coronary arteries in CT angiograms. Medical Physics, 2014, 41, 081912.	1.6	12
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