

Joseph Y Lo

List of Publications by Year in descending order

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181
papers

4,776
citations

87888

38
h-index

110387

64
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181
all docs

181
docs citations

181
times ranked

4126
citing authors

#	ARTICLE	IF	CITATIONS
1	Classification of Multiple Diseases on Body CT Scans Using Weakly Supervised Deep Learning. <i>Radiology: Artificial Intelligence</i> , 2022, 4, e210026.	5.8	6
2	Anomaly Detection of Calcifications in Mammography Based on 11,000 Negative Cases. <i>IEEE Transactions on Biomedical Engineering</i> , 2022, 69, 1639-1650.	4.2	9
3	Prediction of Upstaging in Ductal Carcinoma in Situ Based on Mammographic Radiomic Features. <i>Radiology</i> , 2022, 303, 54-62.	7.3	17
4	Corrections to "i>i>Phantom: A Framework for Automated Creation of Individualized Computational Phantoms and its Application to CT Organ Dosimetry" [Aug 21 3061-3072]. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2022, 26, 478-478.	6.3	0
5	Technical Note: Controlling the attenuation of 3D-printed physical phantoms for computed tomography with a single material. <i>Medical Physics</i> , 2022, , .	3.0	1
6	Co-occurring diseases heavily influence the performance of weakly supervised learning models for classification of chest CT. , 2022, , .		1
7	Interpretable deep learning models for better clinician-AI communication in clinical mammography. , 2022, , .		1
8	Virtual versus reality: external validation of COVID-19 classifiers using XCAT phantoms for chest computed tomography. , 2022, , .		0
9	Quality or quantity: toward a unified approach for multi-organ segmentation in body CT. , 2022, , .		0
10	Multi-label annotation of text reports from computed tomography of the chest, abdomen, and pelvis using deep learning. <i>BMC Medical Informatics and Decision Making</i> , 2022, 22, 102.	3.0	4
11	Machine-learning-based multiple abnormality prediction with large-scale chest computed tomography volumes. <i>Medical Image Analysis</i> , 2021, 67, 101857.	11.6	35
12	Assessment of task-based performance from five clinical DBT systems using an anthropomorphic breast phantom. <i>Medical Physics</i> , 2021, 48, 1026-1038.	3.0	10
13	Mixed-Methods Study to Predict Upstaging of DCIS to Invasive Disease on Mammography. <i>American Journal of Roentgenology</i> , 2021, 216, 903-911.	2.2	7
14	A new method to accurately identify single nucleotide variants using small FFPE breast samples. <i>Briefings in Bioinformatics</i> , 2021, 22, .	6.5	4
15	Multimodal Patient-Specific Registration for Breast Imaging Using Biomechanical Modeling with Reference to AI Evaluation of Breast Tumor Change. <i>Life</i> , 2021, 11, 747.	2.4	5
16	"i>i>Phantom: A Framework for Automated Creation of Individualized Computational Phantoms and Its Application to CT Organ Dosimetry. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021, 25, 3061-3072.	6.3	15
17	A Data Set and Deep Learning Algorithm for the Detection of Masses and Architectural Distortions in Digital Breast Tomosynthesis Images. <i>JAMA Network Open</i> , 2021, 4, e2119100.	5.9	37
18	A case-based interpretable deep learning model for classification of mass lesions in digital mammography. <i>Nature Machine Intelligence</i> , 2021, 3, 1061-1070.	16.0	55

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19	Prediction of Upstaged Ductal Carcinoma <i>in Situ</i> Using Forced Labeling and Domain Adaptation. IEEE Transactions on Biomedical Engineering, 2020, 67, 1565-1572.	4.2	19
20	Impact of Using Uniform Attenuation Coefficients for Heterogeneously Dense Breasts in a Dedicated Breast PET/X-Ray Scanner. IEEE Transactions on Radiation and Plasma Medical Sciences, 2020, 4, 585-593.	3.7	3
21	Evaluation of Combined Artificial Intelligence and Radiologist Assessment to Interpret Screening Mammograms. JAMA Network Open, 2020, 3, e200265.	5.9	236
22	Predicting Upstaging of DCIS to Invasive Disease: Radiologists' Predictive Performance. Academic Radiology, 2020, 27, 1580-1585.	2.5	4
23	Virtual clinical trials in medical imaging: a review. Journal of Medical Imaging, 2020, 7, 1.	1.5	93
24	Attention-guided classification of abnormalities in semi-structured computed tomography reports. , 2020, , .		4
25	A fourâ€alternative forced choice (4AFC) methodology for evaluating microcalcification detection in clinical fullâ€field digital mammography (FFDM) and digital breast tomosynthesis (DBT) systems using an inkjetâ€printed anthropomorphic phantom. Medical Physics, 2019, 46, 3883-3892.	3.0	16
26	Growth Dynamics of Mammographic Calcifications: Differentiating Ductal Carcinoma in Situ from Benign Breast Disease. Radiology, 2019, 292, 77-83.	7.3	19
27	Can Digital Breast Tomosynthesis Replace Full-Field Digital Mammography? A Multireader, Multicase Study of Wide-Angle Tomosynthesis. American Journal of Roentgenology, 2019, 212, 1393-1399.	2.2	28
28	Three-dimensionally-printed anthropomorphic physical phantom for mammography and digital breast tomosynthesis with custom materials, lesions, and uniform quality control region. Journal of Medical Imaging, 2019, 6, 1.	1.5	27
29	Classification of chest CT using case-level weak supervision. , 2019, , .		5
30	Prediction of Occult Invasive Disease in Ductal Carcinoma in Situ Using Deep Learning Features. Journal of the American College of Radiology, 2018, 15, 527-534.	1.8	56
31	Virtual assessment of stereoscopic viewing of digital breast tomosynthesis projection images. Journal of Medical Imaging, 2018, 5, 1.	1.5	2
32	3D printed anthropomorphic physical phantom for mammography and DBT with high contrast custom materials, lesions and uniform chest wall region. , 2018, , .		2
33	Method for task-based evaluation of clinical FFDM and DBT systems using an anthropomorphic breast phantom. , 2018, , .		2
34	Improving classification with forced labeling of other related classes: application to prediction of upstaged ductal carcinoma in situ using mammographic features. , 2018, , .		1
35	Methodology for the objective assessment of lesion detection performance with breast tomosynthesis and digital mammography using a physical anthropomorphic phantom. , 2018, , .		3
36	Evaluation of statistical breast phantoms with higher resolution. , 2018, , .		2

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37	Detectability of artificial lesions in anthropomorphic virtual breast phantoms of variable glandular fraction. Proceedings of SPIE, 2017, , .	0.8	1
38	Third generation anthropomorphic physical phantom for mammography and DBT: incorporating voxelized 3D printing and uniform chest wall QC region. Proceedings of SPIE, 2017, , .	0.8	6
39	Can Occult Invasive Disease in Ductal Carcinoma In Situ Be Predicted Using Computer-extracted Mammographic Features?. Academic Radiology, 2017, 24, 1139-1147.	2.5	18
40	A novel physical anthropomorphic breast phantom for 2D and 3D x-ray imaging. Medical Physics, 2017, 44, 407-416.	3.0	62
41	Synthetic breast phantoms from patient based eigenbreasts. Medical Physics, 2017, 44, 6270-6279.	3.0	11
42	Lesion detectability in stereoscopically viewed digital breast tomosynthesis projection images: a model observer study with anthropomorphic computational breast phantoms. Proceedings of SPIE, 2017, , .	0.8	3
43	Second generation anthropomorphic physical phantom for mammography and DBT: Incorporating voxelized 3D printing and inkjet printing of iodinated lesion inserts. Proceedings of SPIE, 2016, , .	0.8	9
44	Eigenbreasts for statistical breast phantoms. Proceedings of SPIE, 2016, , .	0.8	1
45	Finite-element modeling of compression and gravity on a population of breast phantoms for multimodality imaging simulation. Medical Physics, 2016, 43, 2207-2217.	3.0	27
46	Assessing task performance in FFDM, DBT, and synthetic mammography using uniform and anthropomorphic physical phantoms. Medical Physics, 2016, 43, 5593-5602.	3.0	29
47	A quantitative metrology for performance characterization of five breast tomosynthesis systems based on an anthropomorphic phantom. Medical Physics, 2016, 43, 1627-1638.	3.0	10
48	Predicting false negative errors in digital breast tomosynthesis among radiology trainees using a computer vision-based approach. Expert Systems With Applications, 2016, 56, 1-8.	7.6	7
49	Comparison of model and human observer performance in FFDM, DBT, and synthetic mammography. Proceedings of SPIE, 2016, , .	0.8	3
50	Radiology Trainee Performance in Digital Breast Tomosynthesis: Relationship Between Difficulty and Error-Making Patterns. Journal of the American College of Radiology, 2016, 13, 198-202.	1.8	2
51	Impact of breast structure on lesion detection in breast tomosynthesis, a simulation study. Journal of Medical Imaging, 2016, 3, 1.	1.5	8
52	Identification of error making patterns in lesion detection on digital breast tomosynthesis using computer-extracted image features. , 2016, , .		0
53	Population of 224 realistic human subject-based computational breast phantoms. Medical Physics, 2015, 43, 23-32.	3.0	33
54	Tri-plane correlation imaging for the detection of breast cancer: Effects of angular separation and correlation rule. International Journal of Diagnostic Imaging, 2015, 2, .	0.1	0

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55	The impact of breast structure on lesion detection in breast tomosynthesis. Proceedings of SPIE, 2015, , .	0.8	0
56	A quantitative metrology for performance characterization of breast tomosynthesis systems based on an anthropomorphic phantom. , 2015, , .		0
57	Development of realistic physical breast phantoms matched to virtual breast phantoms based on human subject data. Medical Physics, 2015, 42, 4116-4126.	3.0	86
58	Does Breast Imaging Experience During ResidencyÂTranslate Into Improved Initial Performance in Digital Breast Tomosynthesis?. Journal of the American College of Radiology, 2015, 12, 728-732.	1.8	5
59	Incorporating breast tomosynthesis into radiology residency: Does trainee experience in breast imaging translate into improved performance with this new modality?. , 2015, , .		1
60	Semiautomated head&neck IMRT planning using dose warping and scaling to robustly adapt plans in a knowledge database containing potentially suboptimal plans. Medical Physics, 2015, 42, 4428-4434.	3.0	19
61	A second generation of physical anthropomorphic 3D breast phantoms based on human subject data. Proceedings of SPIE, 2014, , .	0.8	2
62	A task-based comparison of two reconstruction algorithms for digital breast tomosynthesis. , 2014, , .		1
63	Population of 100 realistic, patient-based computerized breast phantoms for multi-modality imaging research. Proceedings of SPIE, 2014, , .	0.8	9
64	Radiation dosimetry in digital breast tomosynthesis: Report of AAPM Tomosynthesis Subcommittee Task Group 223. Medical Physics, 2014, 41, 091501.	3.0	43
65	Using computer&extracted image features for modeling of error&making patterns in detection of mammographic masses among radiology residents. Medical Physics, 2014, 41, 091907.	3.0	14
66	Task-based strategy for optimized contrast enhanced breast imaging: Analysis of six imaging techniques for mammography and tomosynthesis. Medical Physics, 2014, 41, 061908.	3.0	22
67	Development and Application of a Suite of 4-D Virtual Breast Phantoms for Optimization and Evaluation of Breast Imaging Systems. IEEE Transactions on Medical Imaging, 2014, 33, 1401-1409.	8.9	32
68	Modeling resident error-making patterns in detection of mammographic masses using computer-extracted image features: preliminary experiments. Proceedings of SPIE, 2014, , .	0.8	1
69	Quality assurance and training procedures for computer&aided detection and diagnosis systems in	3.0	22
70	A Knowledge-Based Approach to Improving and Homogenizing Intensity Modulated Radiation Therapy Planning Quality Among Treatment Centers: An Example Application to Prostate Cancer Planning. International Journal of Radiation Oncology Biology Physics, 2013, 87, 176-181.	0.8	191
71	Estimating breast density with dual energy mammography: a simple model based on calibration phantoms. , 2013, , .		0
72	Development of matched virtual and physical breast phantoms based on patient data. , 2013, , .		4

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73	3D biopsy for tomosynthesis: simulation of prior information based reconstruction for dose and artifact reduction. , 2012, , .		1
74	Task-based strategy for optimized contrast enhanced breast imaging: analysis of six imaging techniques for mammography and tomosynthesis. , 2012, , .		4
75	Development of a dynamic 4D anthropomorphic breast phantom for contrast-based breast imaging. Proceedings of SPIE, 2012, , .	0.8	5
76	Application of a Dynamic 4D Anthropomorphic Breast Phantom in Contrast-Based Imaging System Optimization: Dual-Energy or Temporal Subtraction?. Lecture Notes in Computer Science, 2012, , 658-665.	1.3	0
77	Knowledge-based IMRT treatment planning for prostate cancer. Medical Physics, 2011, 38, 2515-2522.	3.0	153
78	Validation of a 3D hidden-Markov model for breast tissue segmentation and density estimation from MR and tomosynthesis images. , 2011, , .		3
79	Breast Tomosynthesis. Academic Radiology, 2011, 18, 1298-1310.	2.5	149
80	Comparative performance of multiview stereoscopic and mammographic display modalities for breast lesion detection. Medical Physics, 2011, 38, 1972-1980.	3.0	20
81	Mutual information-based template matching scheme for detection of breast masses: From mammography to digital breast tomosynthesis. Journal of Biomedical Informatics, 2011, 44, 815-823.	4.3	49
82	Computer-aided Classification of Breast Masses: Performance and Interobserver Variability of Expert Radiologists versus Residents. Radiology, 2011, 258, 73-80.	7.3	42
83	Segmentation of adipose and glandular tissue for breast tomosynthesis imaging using a 3D hidden-Markov model trained on breast MRIs. Proceedings of SPIE, 2011, , .	0.8	0
84	A technique optimization protocol and the potential for dose reduction in digital mammography. Medical Physics, 2010, 37, 962-969.	3.0	32
85	The quantitative potential for breast tomosynthesis imaging. Medical Physics, 2010, 37, 1004-1016.	3.0	14
86	User modeling for improved computer-aided training in radiology: initial experience. , 2010, , .		1
87	Efficient Fourier-Wavelet Super-Resolution. IEEE Transactions on Image Processing, 2010, 19, 2669-2681.	9.8	76
88	Can Compression Be Reduced for Breast Tomosynthesis? Monte Carlo Study on Mass and Microcalcification Conspicuity in Tomosynthesis. Radiology, 2009, 251, 673-682.	7.3	43
89	Do serum biomarkers really measure breast cancer?. BMC Cancer, 2009, 9, 164.	2.6	36
90	Optimized image acquisition for breast tomosynthesis in projection and reconstruction space. Medical Physics, 2009, 36, 4859-4869.	3.0	66

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91	Towards Optimized Acquisition Scheme for Multiprojection Correlation Imaging of Breast Cancer. Academic Radiology, 2009, 16, 456-463.	2.5	3
92	Computerized 3D breast phantom with enhanced high-resolution detail. Proceedings of SPIE, 2009, , .	0.8	2
93	Optimized lesion detection in digital breast tomosynthesis. , 2009, , .		0
94	Training neural network classifiers for medical decision making: The effects of imbalanced datasets on classification performance. Neural Networks, 2008, 21, 427-436.	5.9	569
95	Efficient restoration and enhancement of super-resolved X-ray images. , 2008, , .		4
96	Optimized acquisition scheme for multi-projection correlation imaging of breast cancer. Proceedings of SPIE, 2008, , .	0.8	0
97	Toward quantification of breast tomosynthesis imaging. Proceedings of SPIE, 2008, , .	0.8	3
98	Computer-aided detection of breast masses in tomosynthesis reconstructed volumes using information-theoretic similarity measures. , 2008, , .		4
99	Three-dimensional computer generated breast phantom based on empirical data. Proceedings of SPIE, 2008, , .	0.8	6
100	Mass detectability in dedicated breast CT: A simulation study with the application of volume noise removal. , 2008, , .		0
101	Neutron-stimulated emission computed tomography of a multi-element phantom. Physics in Medicine and Biology, 2008, 53, 2313-2326.	3.0	13
102	Cone beam x-ray CT will be superior to digital x-ray tomosynthesis in imaging the breast and delineating cancer. Medical Physics, 2008, 35, 409-411.	3.0	23
103	Impulse response and Modulation Transfer Function analysis for Shift-And-Add and Back Projection image reconstruction algorithms in Digital Breast Tomosynthesis (DBT). International Journal of Functional Informatics and Personalised Medicine, 2008, 1, 189.	0.4	2
104	Automated breast mass detection in 3D reconstructed tomosynthesis volumes: A featureless approach. Medical Physics, 2008, 35, 3626-3636.	3.0	37
105	Dedicated breast computed tomography: Volume image denoising via a partialâ€diffusion equation based technique. Medical Physics, 2008, 35, 1950-1958.	3.0	24
106	Optimization of exposure parameters in full field digital mammography. Medical Physics, 2008, 35, 2414-2423.	3.0	75
107	A mathematical model platform for optimizing a multiprojection breast imaging system. Medical Physics, 2008, 35, 1337-1345.	3.0	41
108	Knowledge Transfer across Breast Cancer Screening Modalities: A Pilot Study Using an Information-Theoretic CADe System for Mass Detection. Lecture Notes in Computer Science, 2008, , 292-298.	1.3	2

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109	Multi-projection Correlation Imaging as a New Diagnostic Tool for Improved Breast Cancer Detection. Lecture Notes in Computer Science, 2008, , 635-642.	1.3	2
110	Effect of Similarity Metrics and ROI Sizes in Featureless Computer Aided Detection of Breast Masses in Tomosynthesis. Lecture Notes in Computer Science, 2008, , 286-291.	1.3	0
111	Assessment of Low Energies and Slice Depth in the Quantification of Breast Tomosynthesis. Lecture Notes in Computer Science, 2008, , 530-536.	1.3	0
112	Multiprojection Correlation Imaging for Improved Detection of Pulmonary Nodules. American Journal of Roentgenology, 2007, 188, 1239-1245.	2.2	19
113	Efficient Registration of Aliased X-Ray Images. Conference Record of the Asilomar Conference on Signals, Systems and Computers, 2007, , .	0.0	7
114	Importance of point-by-point back projection correction for isocentric motion in digital breast tomosynthesis: Relevance to morphology of structures such as microcalcifications. Medical Physics, 2007, 34, 3885-3892.	3.0	41
115	A comparison between traditional shift-and-add (SAA) and point-by-point back projection (BP) -- relevance to morphology of microcalcifications for isocentric motion in Digital Breast tomosynthesis (DBT). , 2007, , .		0
116	Information-theoretic CAD system in mammography: Entropy-based indexing for computational efficiency and robust performance. Medical Physics, 2007, 34, 3193-3204.	3.0	34
117	Breast Mass Lesions: Computer-aided Diagnosis Models with Mammographic and Sonographic Descriptors. Radiology, 2007, 244, 390-398.	7.3	96
118	Breast mass detection in tomosynthesis projection images using information-theoretic similarity measures. , 2007, , .		3
119	Feasibility study of breast tomosynthesis CAD system. , 2007, , .		1
120	Methodology of NEQ (f) analysis for optimization and comparison of digital breast tomosynthesis acquisition techniques and reconstruction algorithms. , 2007, , .		7
121	On the development of a Gaussian noise model for scatter compensation. , 2007, , .		1
122	Visual image quality metrics for optimization of breast tomosynthesis acquisition technique. , 2007, , .		1
123	Initial human subject results for breast bi-plane correlation imaging technique. , 2007, , .		5
124	Decision Fusion of Circulating Markers for Breast Cancer Detection in Premenopausal Women. , 2007, , .		3
125	Neutron stimulated emission computed tomography: Background corrections. Nuclear Instruments & Methods in Physics Research B, 2007, 254, 329-336.	1.4	8
126	Incorporation of a Laguerre-Gauss Channelized Hotelling Observer for False-Positive Reduction in a Mammographic Mass CAD System. Journal of Digital Imaging, 2007, 20, 196-202.	2.9	6

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127	Beam Optimization for Digital Mammography – II. Lecture Notes in Computer Science, 2006, , 273-280.	1.3	2
128	Gaussian frequency blending algorithm with matrix inversion tomosynthesis (MITS) and filtered back projection (FBP) for better digital breast tomosynthesis reconstruction. , 2006, , .		15
129	Noise power spectrum analysis for several digital breast tomosynthesis reconstruction algorithms. , 2006, , .		5
130	Mass detection in mammographic ROIs using Watson filters. , 2006, , .		2
131	Breast cancer diagnosis using neutron stimulated emission computed tomography: dose and count requirements. , 2006, , .		3
132	The effect of data set size on computer-aided diagnosis of breast cancer: comparing decision fusion to a linear discriminant. , 2006, , .		1
133	Rotating slat collimator design for high-energy near-field imaging. , 2006, 6142, 405.		4
134	Introduction to neutron stimulated emission computed tomography. Physics in Medicine and Biology, 2006, 51, 3375-3390.	3.0	41
135	Optimized approach to decision fusion of heterogeneous data for breast cancer diagnosis. Medical Physics, 2006, 33, 2945-2954.	3.0	50
136	Evaluation of information-theoretic similarity measures for content-based retrieval and detection of masses in mammograms. Medical Physics, 2006, 34, 140-150.	3.0	107
137	Characterization of scatter radiation of a breast phantom on Siemens prototype FFDM with and without an anti-scatter grid. , 2005, , .		0
138	Issues in assessing multi-institutional performance of BI-RADS-based CAD systems. , 2005, , .		2
139	Detector evaluation of a prototype amorphous selenium-based full field digital mammography system. , 2005, , .		3
140	Comparative Scatter and Dose Performance of Slot-Scan and Full-Field Digital Chest Radiography Systems. Radiology, 2005, 235, 940-949.	7.3	40
141	Physical characterization of a prototype selenium-based full field digital mammography detector. Medical Physics, 2005, 32, 588-599.	3.0	50
142	Impulse response analysis for several digital tomosynthesis mammography reconstruction algorithms. , 2005, , .		30
143	Accuracy of Segmentation of a Commercial Computer-aided Detection System for Mammography. Radiology, 2005, 235, 385-390.	7.3	16
144	Computer Aid for Decision to Biopsy Breast Masses on Mammography. Academic Radiology, 2005, 12, 671-680.	2.5	25

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145	A framework for optimising the radiographic technique in digital X-ray imaging. Radiation Protection Dosimetry, 2005, 114, 220-229.	0.8	127
146	Fundamental imaging characteristics of a slot-scan digital chest radiographic system. Medical Physics, 2004, 31, 2687-2698.	3.0	53
147	Computer-aided Detection in Screening Mammography: Variability in Cues. Radiology, 2004, 233, 411-417.	7.3	26
148	New results in computer-aided diagnosis (CAD) of breast cancer using a recently developed SVM/GRNN Oracle hybrid. , 2004, , .		0
149	Breast cancer classification improvements using a new kernel function with evolutionary-programming-configured support vector machines. , 2004, 5370, 880.		3
150	Self-organizing map for cluster analysis of a breast cancer database. Artificial Intelligence in Medicine, 2003, 27, 113-127.	6.5	88
151	Application of likelihood ratio to classification of mammographic masses; performance comparison to case-based reasoning. Medical Physics, 2003, 30, 949-958.	3.0	9
152	Computer-Aided Detection (CAD) in Screening Mammography: Sensitivity of Commercial CAD Systems for Detecting Architectural Distortion. American Journal of Roentgenology, 2003, 181, 1083-1088.	2.2	198
153	Computer-aided classification of breast microcalcification clusters: merging of features from image processing and radiologists. , 2003, 5032, 882.		24
154	Prediction of breast biopsy outcome using a likelihood ratio classifier and biopsy cases from two medical centers. , 2003, 5032, 1386.		0
155	Validation of a constraint satisfaction neural network for breast cancer diagnosis: new results from 1030 cases. , 2003, 5032, 207.		0
156	Improving the predictive value of mammography using a specialized evolutionary programming hybrid and fitness functions. , 2003, , .		1
157	Application of support vector machines to breast cancer screening using mammogram and clinical history data. , 2003, 5032, 546.		9
158	Cross-Institutional Evaluation of BI-RADS Predictive Model for Mammographic Diagnosis of Breast Cancer. American Journal of Roentgenology, 2002, 178, 457-463.	2.2	41
159	Cluster analysis of BI-RADS descriptions of biopsy-proven breast lesions. , 2002, , .		6
160	Differences between Computer-aided Diagnosis of Breast Masses and That of Calcifications. Radiology, 2002, 223, 489-493.	7.3	45
161	Application of support vector machines to breast cancer screening using mammogram and history data. , 2002, , .		2
162	Parameter optimization of a computer-aided diagnosis scheme for the segmentation of microcalcification clusters in mammograms. Medical Physics, 2002, 29, 475-483.	3.0	28

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163	Outcome Analysis of Patients with Acute Pancreatitis by Using an Artificial Neural Network. Academic Radiology, 2002, 9, 410-419.	2.5	42
164	Perceptron error surface analysis: a case study in breast cancer diagnosis. Computers in Biology and Medicine, 2002, 32, 99-109.	7.0	12
165	<title>Application of adaptive boosting to EP-derived multilayer feed-forward neural networks (MLFN) to improve benign/malignant breast cancer classification</title>. , 2001, 4322, 1717.		1
166	Computerized classification of suspicious regions in chest radiographs using subregion Hotelling observers. Medical Physics, 2001, 28, 2403-2409.	3.0	12
167	A neural network approach to breast cancer diagnosis as a constraint satisfaction problem. Medical Physics, 2001, 28, 804-811.	3.0	35
168	<title>Evolutionary programming technique for reducing complexity of artificial neural networks for breast cancer diagnosis</title>. , 2000, 3979, 153.		2
169	<title>Application of a GRNN oracle to the intelligent combination of several breast cancer benign/malignant predictive paradigms</title>. , 2000, 3979, 77.		0
170	Case-Based Reasoning Computer Algorithm that Uses Mammographic Findings for Breast Biopsy Decisions. American Journal of Roentgenology, 2000, 175, 1347-1352.	2.2	56
171	Segmentation of suspicious clustered microcalcifications in mammograms. Medical Physics, 2000, 27, 13-22.	3.0	46
172	Effect of patient history data on the prediction of breast cancer from mammographic findings with artificial neural networks. Academic Radiology, 1999, 6, 10-15.	2.5	62
173	Predictive model for the diagnosis of intraabdominal abscess. Academic Radiology, 1998, 5, 473-479.	2.5	4
174	<title>Computer-aided diagnosis of mammography using an artificial neural network: predicting the invasiveness of breast cancers from image features</title>. , 1996, , .		3
175	<title>Academic consortium for the evaluation of computer-aided diagnosis (CADx) in mammography</title>. , 1995, 2431, 442.		0
176	Computer-aided diagnosis of breast cancer: Artificial neural network approach for optimized merging of mammographic features. Academic Radiology, 1995, 2, 841-850.	2.5	63
177	Scatter compensation in digital chest radiography using the posterior beam stop technique. Medical Physics, 1994, 21, 435-443.	3.0	29
178	Prediction of breast cancer malignancy using an artificial neural network. Cancer, 1994, 74, 2944-2948.	4.1	149
179	Bayesian Restoration of Chest Radiographs Scatter Compensation with Improved Signal-to-Noise Ratio. Investigative Radiology, 1994, 29, 904-910.	6.2	12
180	An artificial neural network for estimating scatter exposures in portable chest radiography. Medical Physics, 1993, 20, 965-973.	3.0	3

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181	Quantitative scatter measurement in digital radiography using a photostimulable phosphor imaging system. Medical Physics, 1991, 18, 408-413.	3.0	42