# Heang-Ping Chan

List of Publications by Year
in descending order

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|---|---|---|---|
| 423 papers | 13,505 citations | 16451 64 h-index | 30922 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. | 8.9 | 363 |
| 2 | Improvement in Radiologists?? Detection of Clustered Microcalcifications on Mammograms. Investigative Radiology, 1990, 25, 1102-1110. | 6.2 | 323 |
| 3 | Deep Learning in Medical Image Analysis. Advances in Experimental Medicine and Biology, 2020, 1213, 3-21. | 1.6 | 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. | 3.0 | 280 |
| 5 | Lung nodule detection on thoracic computed tomography images: Preliminary evaluation of a computer-aided diagnosis system. Medical Physics, 2002, 29, 2552-2558. | 3.0 | 270 |
| 6 | Improvement of Radiologists' Characterization of Mammographic Masses by Using Computer-aided Diagnosis: An ROC Study. Radiology, 1999, 212, 817-827. | 7.3 | 262 |
| 7 | Artificial convolution neural network for medical image pattern recognition. Neural Networks, 1995, 8, 1201-1214. | 5.9 | 250 |
| 8 | Anniversary Paper: History and status of CAD and quantitative image analysis: The role of <i>Medical Physics</i> and AAPM. Medical Physics, 2008, 35, 5799-5820. | 3.0 | 250 |
| 9 | A comparative study of limited-angle cone-beam reconstruction methods for breast tomosynthesis. Medical Physics, 2006, 33, 3781-3795. | 3.0 | 244 |
| 10 | Mass detection in digital breast tomosynthesis: Deep convolutional neural network with transfer learning from mammography. Medical Physics, 2016, 43, 6654-6666. | 3.0 | 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. | 3.0 | 203 |
| 12 | Urinary bladder segmentation in CT urography using deep‐learning convolutional neural network and level sets. Medical Physics, 2016, 43, 1882-1896. | 3.0 | 192 |
| 13 | Computerized analysis of mammographic microcalcifications in morphological and texture feature spaces. Medical Physics, 1998, 25, 2007-2019. | 3.0 | 184 |
| 14 | Computer-aided diagnosis of pulmonary nodules on CT scans: Segmentation and classification using 3D active contours. Medical Physics, 2006, 33, 2323-2337. | 3.0 | 184 |
| 15 | Computer-aided detection of mammographic microcalcifications: Pattern recognition with an artificial neural network. Medical Physics, 1995, 22, 1555-1567. | 3.0 | 180 |
| 16 | Computerized characterization of masses on mammograms: The rubber band straightening transform and texture analysis. Medical Physics, 1998, 25, 516-526. | 3.0 | 179 |
| 17 | An adaptive density-weighted contrast enhancement filter for mammographic breast mass detection. IEEE Transactions on Medical Imaging, 1996, 15, 59-67. | 8.9 | 172 |
| 18 | Improvement of mammographic mass characterization using spiculation measures and morphological features. Medical Physics, 2001, 28, 1455-1465. | 3.0 | 166 |

| # | ARTICLE | IF | CITATIONS |
|---|---------|-----|-----------|
| 19 | Computerized image analysis: Estimation of breast density on mammograms. Medical Physics, 2001, 28, 1056-1069. | 3.0 | 157 |
| 20 | Computer–aided diagnosis in the era of deep learning. Medical Physics, 2020, 47, e218-e227. | 3.0 | 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. | 8.9 | 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. | 3.0 | 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. | 8.9 | 147 |
| 24 | Bladder Cancer Treatment Response Assessment in CT using Radiomics with Deep-Learning. Scientific Reports, 2017, 7, 8738. | 3.3 | 144 |
| 25 | Digital Breast Tomosynthesis Is Comparable to Mammographic Spot Views for Mass Characterization. Radiology, 2012, 262, 61-68. | 7.3 | 142 |
| 26 | Digital Mammography. Investigative Radiology, 1987, 22, 581-589. | 6.2 | 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. | 3.0 | 135 |
| 28 | Mammographic Density Measured with Quantitative Computer-aided Method: Comparison with Radiologists' Estimates and BI-RADS Categories. Radiology, 2006, 240, 656-665. | 7.3 | 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. | 7.3 | 128 |
| 30 | Computer–aided diagnosis of pulmonary nodules on CT scans: Improvement of classification performance with nodule surface features. Medical Physics, 2009, 36, 3086-3098. | 3.0 | 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. | 3.0 | 125 |
| 32 | Image feature selection by a genetic algorithm: Application to classification of mass and normal breast tissue. Medical Physics, 1996, 23, 1671-1684. | 3.0 | 115 |
| 33 | Computer-aided Detection System for Breast Masses on Digital Tomosynthesis Mammograms: Preliminary Experience. Radiology, 2005, 237, 1075-1080. | 7.3 | 114 |
| 34 | Feature selection and classifier performance in computer-aided diagnosis: The effect of finite sample size. Medical Physics, 2000, 27, 1509-1522. | 3.0 | 112 |
| 35 | Improvement of computerized mass detection on mammograms: Fusion of two-view information. Medical Physics, 2002, 29, 238-247. | 3.0 | 109 |
| 36 | Genome-wide association study identifies multiple loci associated with both mammographic density and breast cancer risk. Nature Communications, 2014, 5, 5303. | 12.8 | 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. | 7.3 | 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. | 2.5 | 107 |
| 39 | Correlation between mammographic density and volumetric fibroglandular tissue estimated on breast MR images. Medical Physics, 2004, 31, 933-942. | 3.0 | 106 |
| 40 | Automated detection of breast masses on mammograms using adaptive contrast enhancement and texture classification. Medical Physics, 1996, 23, 1685-1696. | 3.0 | 103 |
| 41 | 087001. | 3.0 | 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. | 3.0 | 101 |
| 43 | CAD and AI for breast cancer—recent development and challenges. British Journal of Radiology, 2020, 93, 20190580. | 2.2 | 100 |
| 44 | Classification of mass and normal breast tissue on digital mammograms: Multiresolution texture analysis. Medical Physics, 1995, 22, 1501-1513. | 3.0 | 98 |
| 45 | Combined adaptive enhancement and region-growing segmentation of breast masses on digitized mammograms. Medical Physics, 1999, 26, 1642-1654. | 3.0 | 95 |
| 46 | Improvement in Radiologists' Characterization of Malignant and Benign Breast Masses on Serial Mammograms with Computer-aided Diagnosis: An ROC Study. Radiology, 2004, 233, 255-265. | 7.3 | 93 |
| 47 | Classifier performance prediction for computer-aided diagnosis using a limited dataset. Medical Physics, 2008, 35, 1559-1570. | 3.0 | 93 |
| 48 | Characterization of mammographic masses based on level set segmentation with new image features and patient information. Medical Physics, 2008, 35, 280-290. | 3.0 | 92 |
| 49 | Computer-aided detection of breast masses on full field digital mammograms. Medical Physics, 2005, 32, 2827-2838. | 3.0 | 91 |
| 50 | The Estimation of Occupational Effective Dose in Diagnostic Radiology With Two Dosimeters. Health Physics, 1994, 67, 611-615. | 0.5 | 85 |
| 51 | Physical characteristics of scattered radiation in diagnostic radiology: Monte Carlo simulation studies. Medical Physics, 1985, 12, 152-165. | 3.0 | 83 |
| 52 | Computer-aided detection of masses in digital tomosynthesis mammography: Comparison of three approaches. Medical Physics, 2008, 35, 4087-4095. | 3.0 | 81 |
| 53 | Urinary bladder cancer staging in <scp>CT</scp> urography using machine learning. Medical Physics, 2017, 44, 5814-5823. | 3.0 | 79 |
| 54 | Assessment methodologies and statistical issues for computer-aided diagnosis of lung nodules in computed tomography. Academic Radiology, 2004, 11, 462-475. | 2.5 | 76 |

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|---|---------|----|-----------|
| 55 | Breast Cancer Detection: Evaluation of a Mass-Detection Algorithm for Computer-aided Diagnosis—Experience in 263 Patients. Radiology, 2002, 224, 217-224. | 7.3 | 75 |
| 56 | Association of Computerized Mammographic Parenchymal Pattern Measure with Breast Cancer Risk: A Pilot Case-Control Study. Radiology, 2011, 260, 42-49. | 7.3 | 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. | 3.0 | 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. | 3.0 | 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. | 3.0 | 72 |
| 60 | Computer aided detection of clusters of microcalcifications on full field digital mammograms. Medical Physics, 2006, 33, 2975-2988. | 3.0 | 72 |
| 61 | Automatic multiscale enhancement and segmentation of pulmonary vessels in CT pulmonary angiography images for CAD applications. Medical Physics, 2007, 34, 4567-4577. | 3.0 | 72 |
| 62 | Computer-Aided Diagnosis of Lung Cancer and Pulmonary Embolism in Computed Tomography—A Review. Academic Radiology, 2008, 15, 535-555. | 2.5 | 71 |
| 63 | Digitization requirements in mammography: Effects on computer-aided detection of microcalcifications. Medical Physics, 1994, 21, 1203-1211. | 3.0 | 67 |
| 64 | Computerized characterization of breast masses on three-dimensional ultrasound volumes. Medical Physics, 2004, 31, 744-754. | 3.0 | 66 |
| 65 | Analysis of temporal changes of mammographic features: Computer-aided classification of malignant and benign breast masses. Medical Physics, 2001, 28, 2309-2317. | 3.0 | 65 |
| 66 | Combination of Digital Mammography with Semi-automated 3D Breast Ultrasound. Technology in Cancer Research and Treatment, 2004, 3, 325-334. | 1.9 | 64 |
| 67 | Bladder Cancer Segmentation in CT for Treatment Response Assessment: Application of Deep-Learning Convolution Neural Network—A Pilot Study. Tomography, 2016, 2, 421-429. | 1.8 | 64 |
| 68 | Optimal Neural Network Architecture Selection. Academic Radiology, 2002, 9, 420-429. | 2.5 | 63 |
| 69 | Classification of malignant and benign masses based on hybrid ART2LDA approach. IEEE Transactions on Medical Imaging, 1999, 18, 1178-1187. | 8.9 | 62 |
| 70 | Investigation of the performance of antiscatter grids: Monte Carlo simulation studies. Physics in Medicine and Biology, 1982, 27, 785-803. | 3.0 | 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. | 1.8 | 61 |
| 72 | Computer-aided diagnosis in chest radiology. Journal of Thoracic Imaging, 1990, 5, 67-76. | 1.5 | 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. | 2.5 | 55 |
| 74 | Novel Associations between Common Breast Cancer Susceptibility Variants and Risk-Predicting Mammographic Density Measures. Cancer Research, 2015, 75, 2457-2467. | 0.9 | 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. | 3.0 | 54 |
| 76 | Effect of finite sample size on feature selection and classification: A simulation study. Medical Physics, 2010, 37, 907-920. | 3.0 | 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. | 3.0 | 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. | 3.0 | 52 |
| 79 | Studies of performance of antiscatter grids in digital radiography: Effect on signal-to-noise ratio. Medical Physics, 1990, 17, 655-664. | 3.0 | 50 |
| 80 | Advances in computer-aided diagnosis for breast cancer. Current Opinion in Obstetrics and Gynecology, 2006, 18, 64-70. | 2.0 | 50 |
| 81 | Uâ€Net based deep learning bladder segmentation in <scp>CT</scp> urography. Medical Physics, 2019, 46, 1752-1765. | 3.0 | 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. | 3.0 | 49 |
| 83 | Computer-aided detection of clustered microcalcifications in digital breast tomosynthesis: A 3D approach. Medical Physics, 2011, 39, 28-39. | 3.0 | 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. | 3.0 | 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. | 5.8 | 48 |
| 86 | Bilateral analysis based false positive reduction for computerâ€aided mass detection. Medical Physics, 2007, 34, 3334-3344. | 3.0 | 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. | 7.3 | 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. | 2.5 | 46 |
| 89 | Computerâ€aided detection of breast masses on mammograms: Dual system approach with twoâ€view analysis. Medical Physics, 2009, 36, 4451-4460. | 3.0 | 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. | 3.0 | 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. | 3.0 | 43 |
| 92 | Breast Masses: Computer-aided Diagnosis with Serial Mammograms. Radiology, 2006, 240, 343-356. | 7.3 | 43 |
| 93 | A regional registration technique for automated interval change analysis of breast lesions on mammograms. Medical Physics, 1999, 26, 2669-2679. | 3.0 | 41 |
| 94 | Automated volume analysis of head and neck lesions on CT scans using 3D level set segmentation. Medical Physics, 2007, 34, 4399-4408. | 3.0 | 39 |
| 95 | Computer-Aided Diagnosis of Lung Nodules on CT Scans:. Academic Radiology, 2010, 17, 323-332. | 2.5 | 39 |
| 96 | Comparison of similarity measures for the task of template matching of masses on serial mammograms. Medical Physics, 2005, 32, 515-529. | 3.0 | 38 |
| 97 | Deep Learning Approach for Assessment of Bladder Cancer Treatment Response. Tomography, 2019, 5, 201-208. | 1.8 | 38 |
| 98 | Performance of antiscatter grids in diagnostic radiology: Experimental measurements and Monte Carlo simulation studies. Medical Physics, 1985, 12, 449-454. | 3.0 | 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. | 3.0 | 37 |
| 100 | Computerized nipple identification for multiple image analysis in computer-aided diagnosis. Medical Physics, 2004, 31, 2871-2882. | 3.0 | 36 |
| 101 | Accuracy of the CT numbers of simulated lung nodules imaged with multi-detector CT scanners. Medical Physics, 2006, 33, 3006-3017. | 3.0 | 36 |
| 102 | Automated iterative neutrosophic lung segmentation for image analysis in thoracic computed tomography. Medical Physics, 2013, 40, 081912. | 3.0 | 36 |
| 103 | Analysis of Uncertainties in Estimates of Components of Variance in Multivariate ROC Analysis. Academic Radiology, 2001, 8, 616-622. | 2.5 | 35 |
| 104 | Selective‐diffusion regularization for enhancement of microcalcifications in digital breast tomosynthesis reconstruction. Medical Physics, 2010, 37, 6003-6014. | 3.0 | 35 |
| 105 | A new automated method for the segmentation and characterization of breast masses on ultrasound images. Medical Physics, 2009, 36, 1553-1565. | 3.0 | 34 |
| 106 | Classification of compressed breast shapes for the design of equalization filters in x-ray mammography. Medical Physics, 1998, 25, 937-948. | 3.0 | 33 |
| 107 | Dual system approach to computer-aided detection of breast masses on mammograms. Medical Physics, 2006, 33, 4157-4168. | 3.0 | 33 |
| 108 | Image quality of microcalcifications in digital breast tomosynthesis: Effects of projection-view distributions. Medical Physics, 2011, 38, 5703-5712. | 3.0 | 33 |

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| 109 | Joint two-view information for computerized detection of microcalcifications on mammograms. Medical Physics, 2006, 33, 2574-2585. | 3.0 | 32 |
| 110 | Digital breast tomosynthesis: computer-aided detection of clustered microcalcifications on planar projection images. Physics in Medicine and Biology, 2014, 59, 7457-7477. | 3.0 | 32 |
| 111 | Basic Imaging Properties of a Large Image Intensifier-TV Digital Chest Radiographic System. Investigative Radiology, 1987, 22, 328-335. | 6.2 | 31 |
| 112 | Adverse Effects of Increased Body Weight on Quantitative Measures of Mammographic Image Quality. American Journal of Roentgenology, 2000, 175, 805-810. | 2.2 | 31 |
| 113 | Auto-Initialized Cascaded Level Set (AI-CALS) Segmentation of Bladder Lesions on Multidetector Row CT Urography. Academic Radiology, 2013, 20, 148-155. | 2.5 | 31 |
| 114 | Image compression in digital mammography: Effects on computerized detection of subtle microcalcifications. Medical Physics, 1996, 23, 1325-1336. | 3.0 | 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. | 3.0 | 29 |
| 116 | Multi-modality CADx. Academic Radiology, 2009, 16, 810-818. | 2.5 | 29 |
| 117 | Investigation of basic imaging properties in digital radiography. 5. Characteristic curves of II-TV digital systems. Medical Physics, 1986, 13, 13-18. | 3.0 | 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. | 3.0 | 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. | 3.0 | 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. | 0.9 | 27 |
| 124 | &lt;title&gt;An Empirical Investigation Of Variability In Contrast-Detail Diagram Measurements&lt;/title&gt;. 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. | 3.0 | 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. | 5.9 | 25 |

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| 127 | Computerâ€aided detection of breast masses: Fourâ€view strategy for screening mammography. Medical Physics, 2011, 38, 1867-1876. | 3.0 | 25 |
| 128 | Aromatase inhibitor-induced modulation of breast density: clinical and genetic effects. British Journal of Cancer, 2013, 109, 2331-2339. | 6.4 | 25 |
| 129 | Computerâ€aided detection of clustered microcalcifications in multiscale bilateral filtering regularized reconstructed digital breast tomosynthesis volume. Medical Physics, 2014, 41, 021901. | 3.0 | 25 |
| 130 | Digital Mammography. Academic Radiology, 2001, 8, 454-466. | 2.5 | 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. | 3.0 | 24 |
| 132 | Pulmonary nodule registration in serial CT scans based on rib anatomy and nodule template matching. Medical Physics, 2007, 34, 1336-1347. | 3.0 | 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. | 2.5 | 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. | 3.0 | 24 |
| 135 | AI in medical physics: guidelines for publication. Medical Physics, 2021, 48, 4711-4714. | 3.0 | 24 |
| 136 | Automated Tracking and Computer Reproduction of Vessels in DSA Images. Investigative Radiology, 1990, 25, 1069-1075. | 6.2 | 23 |
| 137 | Phototimer setup for CR imaging. Medical Physics, 2000, 27, 2652-2658. | 3.0 | 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. | 3.0 | 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. | 3.0 | 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. | 3.0 | 22 |
| 141 | Effects of x-ray beam equalization on mammographic imaging. Medical Physics, 1990, 17, 242-249. | 3.0 | 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. | 3.0 | 22 |
| 143 | Quality assurance and training procedures for computerâ€aided detection and diagnosis systems in | 3.0 | 22 |
| 144 | Characterization of Breast Masses in Digital Breast Tomosynthesis and Digital Mammograms. Academic Radiology, 2017, 24, 1372-1379. | 2.5 | 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. | 1.7 | 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. | 3.0 | 21 |
| 147 | Radiation dose in diagnostic radiology: Monte Carlo simulation studies. Medical Physics, 1984, 11, 480-490. | 3.0 | 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. | 3.0 | 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. | 3.0 | 20 |
| 151 | Multiscale bilateral filtering for improving image quality in digital breast tomosynthesis. Medical Physics, 2015, 42, 182-195. | 3.0 | 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. | 2.5 | 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. | 8.9 | 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. | 3.0 | 19 |
| 157 | Deep Convolutional Neural Network With Adversarial Training for Denoising Digital Breast Tomosynthesis Images. IEEE Transactions on Medical Imaging, 2021, 40, 1805-1816. | 8.9 | 19 |
| 158 | Dynamic Digital Subtraction Evaluation of Regional Pulmonary Ventilation with Nonradioactive Xenon. Investigative Radiology, 1990, 25, 728-734. | 6.2 | 17 |
| 159 | Automated segmentation of regions of interest on hand radiographs. Medical Physics, 1994, 21, 1293-1300. | 3.0 | 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. | 2.5 | 17 |
| 162 | Multichannel response analysis on 2D projection views for detection of clustered microcalcifications in digital breast tomosynthesis. Medical Physics, 2014, 41, 041913. | 3.0 | 17 |

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| 163 | Semi‐automated pulmonary nodule interval segmentation using the <scp>NLST</scp> data. Medical Physics, 2018, 45, 1093-1107. | 3.0 | 17 |
| 164 | Detector Blur and Correlated Noise Modeling for Digital Breast Tomosynthesis Reconstruction. IEEE Transactions on Medical Imaging, 2018, 37, 116-127. | 8.9 | 17 |
| 165 | Experimental and theoretical energy and angular dependencies of scattered radiation in the mammography energy range. Medical Physics, 1983, 10, 664-668. | 3.0 | 16 |
| 166 | Some properties of photon scattering in water phantoms in diagnostic radiology. Medical Physics, 1986, 13, 824-830. | 3.0 | 16 |
| 167 | Dynamic multiple thresholding breast boundary detection algorithm for mammograms. Medical Physics, 2010, 37, 391-401. | 3.0 | 16 |
| 168 | Computerized image analysis: Texture‐field orientation method for pectoral muscle identification on MLO‐view mammograms. Medical Physics, 2010, 37, 2289-2299. | 3.0 | 16 |
| 169 | Treatment Response Assessment of Head and Neck Cancers on CT Using Computerized Volume Analysis. American Journal of Neuroradiology, 2010, 31, 1744-1751. | 2.4 | 16 |
| 170 | Risks of feature leakage and sample size dependencies in deep feature extraction for breast mass classification. Medical Physics, 2021, 48, 2827-2837. | 3.0 | 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. | 3.0 | 15 |
| 173 | CT urography: segmentation of urinary bladder using CLASS with local contour refinement. Physics in Medicine and Biology, 2014, 59, 2767-2785. | 3.0 | 15 |
| 174 | Deep‐learning convolutional neural network: Inner and outer bladder wall segmentation in CT urography. Medical Physics, 2019, 46, 634-648. | 3.0 | 15 |
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