

# Robert M Nishikawa

## List of Publications by Year in descending order

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Version: 2024-02-01

252  
papers

6,808  
citations

81434

41  
h-index

81351

76  
g-index

258  
all docs

258  
docs citations

258  
times ranked

3949  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Identifying Women With Mammographically- Occult Breast Cancer Leveraging GAN-Simulated Mammograms. IEEE Transactions on Medical Imaging, 2022, 41, 225-236.   | 5.4 | 15        |
| 2  | Analyzing GAN artifacts for simulating mammograms: application towards finding mammographically-occult cancer. , 2022, , .  |     | 2         |
| 3  | Cross-Organ, Cross-Modality Transfer Learning: Feasibility Study for Segmentation and Classification. IEEE Access, 2020, 8, 210194-210205.  | 2.6 | 11        |
| 4  | Virtual Clinical Trials: Why and What (Special Section Guest Editorial). Journal of Medical Imaging, 2020, 7, 1.  | 0.8 | 9         |
| 5  | Special Section Guest Editorial: Evaluation Methodologies for Clinical AI. Journal of Medical Imaging, 2020, 7, 1.  | 0.8 | 0         |
| 6  | Linkage of the ACR National Mammography Database to the Network of State Cancer Registries: Proof of Concept Evaluation by the ACR National Mammography Database Committee. Journal of the American College of Radiology, 2019, 16, 8-14. | 0.9 | 5         |
| 7  | Limiting Level of False-Positive Detections in Classification of Microcalcification Clusters in Mammograms. , 2019, , .   |     | 0         |
| 8  | Detecting mammographically occult cancer in women with dense breasts using deep convolutional neural network and Radon Cumulative Distribution Transform. Journal of Medical Imaging, 2019, 6, 1.   | 0.8 | 7         |
| 9  | Gist processing in digital breast tomosynthesis. Journal of Medical Imaging, 2019, 7, 1.  | 0.8 | 6         |
| 10 | Detecting mammographically-occult cancer in women with dense breasts using deep convolutional neural network and Radon cumulative distribution transform. , 2019, , .   |     | 6         |
| 11 | Oculomotor behaviour of radiologists reading digital breast tomosynthesis (DBT). , 2019, , .  |     | 0         |
| 12 | Locally adaptive decision in detection of clustered microcalcifications in mammograms. Physics in Medicine and Biology, 2018, 63, 045014.   | 1.6 | 1         |
| 13 | Automated mammographic breast density estimation using a fully convolutional network. Medical Physics, 2018, 45, 1178-1190.   | 1.6 | 74        |
| 14 | Importance of Better Human-Computer Interaction in the Era of Deep Learning: Mammography Computer-Aided Diagnosis as a Use Case. Journal of the American College of Radiology, 2018, 15, 49-52.   | 0.9 | 32        |
| 15 | Evaluation of a Computer-Aided Diagnosis System in the Classification of Lesions in Breast Strain Elastography Imaging. Bioengineering, 2018, 5, 62.  | 1.6 | 6         |
| 16 | Reducing the effect of false positives in classification of detected clustered microcalcifications. , 2018, , .   |     | 1         |
| 17 | Relationship between computer segmentation performance and computer classification performance in breast CT: A simulation study using RGI segmentation and LDA classification. Medical Physics, 2018, 45, 3650-3656.                      | 1.6 | 1         |
| 18 | Neutrosophic segmentation of breast lesions for dedicated breast computed tomography. Journal of Medical Imaging, 2018, 5, 1.   | 0.8 | 4         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Detecting mammographically occult cancer in women with dense breasts using Radon Cumulative Distribution Transform: a preliminary analysis. , 2018, , .  |     | 4         |
| 20 | Developing imaging biomarkers for mammographically-occult cancer in dense breasts using a radiologist's progress rating on cancer development: a preliminary analysis. , 2018, , .                       |     | 0         |
| 21 | Estimating the Accuracy Level Among Individual Detections in Clustered Microcalcifications. IEEE Transactions on Medical Imaging, 2017, 36, 1162-1171.   | 5.4 | 11        |
| 22 | Global detection approach for clustered microcalcifications in mammograms using a deep learning network. Journal of Medical Imaging, 2017, 4, 024501.  | 0.8 | 25        |
| 23 | Lack of agreement between radiologists: implications for image-based model observers. Journal of Medical Imaging, 2017, 4, 025502.   | 0.8 | 2         |
| 24 | Quantitative comparison of clustered microcalcifications in for-presentation and for-processing mammograms in full-field digital mammography. Medical Physics, 2017, 44, 3726-3738.                      | 1.6 | 8         |
| 25 | Due to potential concerns of bias and conflicts of interest, regulatory bodies should not do evaluation methodology research related to their regulatory missions. Medical Physics, 2017, 44, 4403-4406. | 1.6 | 1         |
| 26 | Optimal reconstruction and quantitative image features for computer-aided diagnosis tools for breast <sc>CT</sc>. Medical Physics, 2017, 44, 1846-1856.  | 1.6 | 6         |
| 27 | Agreement between a computer-assisted tool and radiologists to classify lesions in breast elastography images. Proceedings of SPIE, 2017, , .  | 0.8 | 0         |
| 28 | Neutrosophic segmentation of breast lesions for dedicated breast CT. Proceedings of SPIE, 2017, , .  | 0.8 | 1         |
| 29 | Changes in frequency of recall recommendations of examinations depicting cancer with the availability of either priors or digital breast tomosynthesis. Proceedings of SPIE, 2016, , .                   | 0.8 | 0         |
| 30 | Breast MRI contrast enhancement kinetics of normal parenchyma correlate with presence of breast cancer. Breast Cancer Research, 2016, 18, 76.  | 2.2 | 25        |
| 31 | Can model observers be developed to reproduce radiologists' diagnostic performances? Our study says not so fast!. Proceedings of SPIE, 2016, , .   | 0.8 | 1         |
| 32 | Quantitative study of image features of clustered microcalcifications in for-presentation mammograms. , 2016, , .  |     | 2         |
| 33 | An image-retrieval aided diagnosis system for clustered microcalcifications. , 2016, , .   |     | 4         |
| 34 | Proposal of Semi-automatic Classification of Breast Lesions for Strain Sonoelastography Using a Dedicated CAD System. Lecture Notes in Computer Science, 2016, , 454-460.                                | 1.0 | 1         |
| 35 | Agreement Between Radiologists's™ Interpretations of Screening Mammograms. Lecture Notes in Computer Science, 2016, , 3-10.  | 1.0 | 3         |
| 36 | Improving the accuracy in detection of clustered microcalcifications with a context-sensitive classification model. Medical Physics, 2015, 43, 159-170.  | 1.6 | 22        |

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|----|---|-----|-----------|
| 37 | Local curvature analysis for classifying breast tumors: Preliminary analysis in dedicated breast CT. Medical Physics, 2015, 42, 5479-5489.  | 1.6 | 16        |
| 38 | New Screening Technologies and Practices: A Different Approach to Estimation of Performance Improvement by Using Data from the Transition Period. Radiology, 2015, 275, 9-12.       | 3.6 | 8         |
| 39 | Using breast radiographers' reports as a second opinion for radiologists' readings of microcalcifications in digital mammography. British Journal of Radiology, 2015, 88, 20140565. | 1.0 | 2         |
| 40 | A computational model to generate simulated three-dimensional breast masses. Medical Physics, 2015, 42, 1098-1118.  | 1.6 | 52        |
| 41 | WEâ€œ207â€œ05: Relationship Between CT Image Quality, Segmentation Performance, and Quantitative Image Feature Analysis. Medical Physics, 2015, 42, 3697-3697.                      | 1.6 | 3         |
| 42 | Abstract P1-01-07: Quantitative assessment of early- and delayed DCE-MRI background parenchymal enhancement in breast cancer risk prediction. , 2015, , .                           |     | 0         |
| 43 | Exploring perceptually similar cases with multi-dimensional scaling. Proceedings of SPIE, 2014, , .   | 0.8 | 0         |
| 44 | Enhancing tissue structures with iterative image reconstruction for digital breast tomosynthesis. Proceedings of SPIE, 2014, , .  | 0.8 | 1         |
| 45 | Analysis of perceived similarity between pairs of microcalcification clusters in mammograms. Medical Physics, 2014, 41, 051904.   | 1.6 | 11        |
| 46 | CADe for Early Detection of Breast Cancerâ€œCurrent Status and Why We Need to Continue to Explore New Approaches. Academic Radiology, 2014, 21, 1320-1321.                          | 1.3 | 34        |
| 47 | Estimating Sensitivity and Specificity for Technology Assessment Based on Observer Studies. Academic Radiology, 2013, 20, 825-830.  | 1.3 | 2         |
| 48 | The potential of iodine for improving breast cancer diagnosis and treatment. Medical Hypotheses, 2013, 80, 94-98.   | 0.8 | 4         |
| 49 | Conventional mammographic image generation in dual-energy digital mammography. , 2013, , .  |     | 0         |
| 50 | Stereoscopic Digital Mammography: Improved Specificity and Reduced Rate of Recall in a Prospective Clinical Trial. Radiology, 2013, 266, 81-88.                                     | 3.6 | 36        |
| 51 | Algorithmic scatter correction in dual-energy digital mammography. Medical Physics, 2013, 40, 111919.   | 1.6 | 7         |
| 52 | Validation of a power-law noise model for simulating small-scale breast tissue. Physics in Medicine and Biology, 2013, 58, 6011-6027.   | 1.6 | 17        |
| 53 | Reduction of false positive detection in clustered microcalcifications. , 2013, , .   |     | 11        |
| 54 | Fast, robust dynamic field-of-view adjustment for iterative reconstruction of dedicated breast CT. , 2013, , .  |     | 0         |

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|----|--|-----|-----------|
| 55 | Regularization in Retrieval-Driven Classification of Clustered Microcalcifications for Breast Cancer. International Journal of Biomedical Imaging, 2012, 2012, 1-8.  | 3.0 | 2         |
| 56 | Signal-known exactly detection performance in tomosynthesis: does volume visualization help human observers?. Proceedings of SPIE, 2012, , .   | 0.8 | 1         |
| 57 | Re: Effectiveness of Computer-Aided Detection in Community Mammography Practice. Journal of the National Cancer Institute, 2012, 104, 77-77.   | 3.0 | 3         |
| 58 | Clinically Missed Cancer: How Effectively Can Radiologists Use Computer-Aided Detection?. American Journal of Roentgenology, 2012, 198, 708-716.   | 1.0 | 41        |
| 59 | Overview. Spermatogenesis, 2012, 2, 127-128.   | 0.8 | 1         |
| 60 | Assessing the Stand-Alone Sensitivity of Computer-Aided Detection With Cancer Cases From the Digital Mammographic Imaging Screening Trial. American Journal of Roentgenology, 2012, 199, W392-W401.                                    | 1.0 | 24        |
| 61 | A statistically defined anthropomorphic software breast phantom. Medical Physics, 2012, 39, 3375-3385.   | 1.6 | 39        |
| 62 | Retrieval boosted computer-aided diagnosis of clustered microcalcifications for breast cancer. Medical Physics, 2012, 39, 676-685.   | 1.6 | 12        |
| 63 | Re: Effectiveness of Computer-Aided Detection in Community Mammography Practice. Journal of the National Cancer Institute, 2012, 104, 77-78.   | 3.0 | 3         |
| 64 | Algorithmic scatter correction in dual-energy digital mammography for calcification imaging. , 2012, , .   |     | 1         |
| 65 | A comparison study of image features between FFDM and film mammogram images. Medical Physics, 2012, 39, 4386-4394.   | 1.6 | 7         |
| 66 | Computer-aided detection should be used routinely to assist screening mammogram interpretation. Medical Physics, 2012, 39, 5305-5307.  | 1.6 | 2         |
| 67 | Automated detection of mass lesions in dedicated breast CT: A preliminary study. Medical Physics, 2012, 39, 866-873.   | 1.6 | 17        |
| 68 | Charles E. Metz, PhD. Academic Radiology, 2012, 19, 1537-1538.   | 1.3 | 2         |
| 69 | A Directional Small-Scale Tissue Model for an Anthropomorphic Breast Phantom. Lecture Notes in Computer Science, 2012, , 141-148.  | 1.0 | 3         |
| 70 | Methods for Evaluating the Effectiveness of Screening Mammography Are Not Necessarily Valid for Evaluating the Effectiveness of Computer-Aided Detection in Screening Mammography. Lecture Notes in Computer Science, 2012, , 705-712. | 1.0 | 0         |
| 71 | Estimating Sensitivity and Specificity in an ROC Experiment. Lecture Notes in Computer Science, 2012, , 690-696.   | 1.0 | 0         |
| 72 | TH-E-217BCD-01: Contrast-To-Noise Ratio Is Not an Appropriate Measure of CT Image Quality When Comparing Different Iterative Reconstruction Algorithms. Medical Physics, 2012, 39, 4014-4014.  | 1.6 | 0         |

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| 73 | Textural feature comparison between FFDM and film mammograms. , 2011, , .  |     | 1         |
| 74 | A comparison study of textural features between FFDM and film mammogram images. Proceedings of SPIE, 2011, , .   | 0.8 | 0         |
| 75 | On the orientation of mammographic structure. Medical Physics, 2011, 38, 5303-5306.  | 1.6 | 25        |
| 76 | Fundamental limitations in developing computer-aided detection for mammography. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 648, S251-S254. | 0.7 | 0         |
| 77 | Image noise sensitivity of dual-energy digital mammography for calcification imaging. , 2011, , .  |     | 1         |
| 78 | Issues in characterizing anatomic structure in digital breast tomosynthesis. Proceedings of SPIE, 2011, , .  | 0.8 | 2         |
| 79 | Detection of clustered microcalcifications using spatial point process modeling. Physics in Medicine and Biology, 2011, 56, 1-17.  | 1.6 | 157       |
| 80 | MO-A-214-01: 3D Breast Models. Medical Physics, 2011, 38, 3706-3706.   | 1.6 | 0         |
| 81 | Evaluation of a 3D lesion segmentation algorithm on DBT and breast CT images. Proceedings of SPIE, 2010, , .   | 0.8 | 11        |
| 82 | Scanning translucent glass-ceramic x-ray storage phosphors. Proceedings of SPIE, 2010, 7622, 76223W.   | 0.8 | 3         |
| 83 | Rating scales for observer performance studies. , 2010, , .  |     | 0         |
| 84 | Toward validation of a 3D structured background model for breast imaging. Proceedings of SPIE, 2010, , .   | 0.8 | 1         |
| 85 | Contrast Enhancement of Hepatic Hemangiomas on Multiphase MDCT: Can We Diagnose Hepatic Hemangiomas by Comparing Enhancement With Blood Pool?. American Journal of Roentgenology, 2010, 195, 381-386.                                  | 1.0 | 21        |
| 86 | Medical Physics, 2010, 37, 1591-1600.  | 1.6 | 133       |
| 87 | Computer-aided Detection and Diagnosis. Medical Radiology, 2010, , 85-106.   | 0.0 | 9         |
| 88 | An Anthropomorphic Software Breast Phantom for Tomosynthesis Simulation: Power Spectrum Analysis of Phantom Projections. Lecture Notes in Computer Science, 2010, , 452-458.   | 1.0 | 7         |
| 89 | TH-D-201B-08: An Anthropomorphic Software Breast Phantom for Tomosynthesis Simulation: Power Spectrum Analysis of Phantom Reconstructions. Medical Physics, 2010, 37, 3473-3473.   | 1.6 | 5         |
| 90 | Stratified Sampling for Case Selection Criteria for Evaluating CAD. Lecture Notes in Computer Science, 2010, , 534-539.  | 1.0 | 0         |

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|-----|---|-----|-----------|
| 91  | Human Observer Performance in a Single Slice or a Volume: Effect of Background Correlation. Lecture Notes in Computer Science, 2010, , 327-333.   | 1.0 | 0         |
| 92  | Computer-aided Detection Evaluation Methods Are Not Created Equal. Radiology, 2009, 251, 634-636.   | 3.6 | 17        |
| 93  | Effect of non-isotropic detector blur on microcalcification detectability in tomosynthesis. , 2009, , .   |     | 3         |
| 94  | Comparison of Soft-copy and Hard-copy Reading for Full-Field Digital Mammography. Radiology, 2009, 251, 41-49.  | 3.6 | 22        |
| 95  | Learning of Perceptual Similarity From Expert Readers for Mammogram Retrieval. IEEE Journal on Selected Topics in Signal Processing, 2009, 3, 53-61.  | 7.3 | 23        |
| 96  | Microcalcification classification assisted by content-based image retrieval for breast cancer diagnosis. Pattern Recognition, 2009, 42, 1126-1132.  | 5.1 | 87        |
| 97  | Enhanced imaging of microcalcifications in digital breast tomosynthesis through improved image reconstruction algorithms. Medical Physics, 2009, 36, 4920-4932.   | 1.6 | 157       |
| 98  | Imaging in the age of medical bioinformatics; , 2009, , .   |     | 0         |
| 99  | Comparison of power spectra for tomosynthesis projections and reconstructed images. Medical Physics, 2009, 36, 1753-1758.   | 1.6 | 59        |
| 100 | Influence of signal-to-noise ratio and temporal stability on computer-aided detection of mammographic microcalcifications in digitized screen-film and full-field digital mammography. Proceedings of SPIE, 2008, , . | 0.8 | 1         |
| 101 | Microcalcification detectability in tomosynthesis. , 2008, , .  |     | 0         |
| 102 | Contrast-enhanced dual-energy subtraction imaging using electronic spectrum-splitting and multi-prism x-ray lenses. Proceedings of SPIE, 2008, , .  | 0.8 | 2         |
| 103 | Practical iterative image reconstruction in digital breast tomosynthesis by non-convex T <sub>p</sub> V optimization. Proceedings of SPIE, 2008, , .  | 0.8 | 14        |
| 104 | Preliminary study on the impact of digital breast tomosynthesis scanning angle on micro-calcification imaging. , 2008, , .  |     | 0         |
| 105 | Automated detection of microcalcification clusters for digital breast tomosynthesis using projection data only: A preliminary study. Medical Physics, 2008, 35, 1486-1493.  | 1.6 | 46        |
| 106 | Effect of Scan Angle and Reconstruction Algorithm on Model Observer Performance in Tomosynthesis. Lecture Notes in Computer Science, 2008, , 606-611.   | 1.0 | 3         |
| 107 | The Effect of Variable Exposure Distribution On Microcalcification Detectability in Tomosynthesis. Medical Physics, 2008, 35, 2978-2978.  | 1.6 | 0         |
| 108 | Image reconstruction in digital breast tomosynthesis by total variation minimization. , 2007, , .   |     | 11        |

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| 109 | A new approach to digital breast tomosynthesis for breast cancer screening. , 2007, , .  |      | 18        |
| 110 | Computer-Aided Screening Mammography. New England Journal of Medicine, 2007, 357, 83-85.   | 13.9 | 15        |
| 111 | RETRIEVAL-DRIVEN MICROCALCIFICATION CLASSIFICATION FOR BREAST CANCER DIAGNOSIS. , 2007, , .  |      | 1         |
| 112 | Development of a model for breast tomosynthesis image acquisition. , 2007, , .   |      | 2         |
| 113 | Observer evaluation of a method for producing simulated mammograms. , 2007, , .  |      | 0         |
| 114 | Microcalcification Classification Assisted by Content-Based Image Retrieval for Breast Cancer Diagnosis. , 2007, , .   |      | 9         |
| 115 | Independent Evaluation of Computer Classification of Malignant and Benign Calcifications in Full-Field Digital Mammograms. Academic Radiology, 2007, 14, 363-370.                        | 1.3  | 18        |
| 116 | Current status and future directions of computer-aided diagnosis in mammography. Computerized Medical Imaging and Graphics, 2007, 31, 224-235.   | 3.5  | 160       |
| 117 | Comparison of Independent Double Readings and Computer-Aided Diagnosis (CAD) for the Diagnosis of Breast Calcifications. Academic Radiology, 2006, 13, 534-535.                          | 1.3  | 1         |
| 118 | Comparison of Independent Double Readings and Computer-Aided Diagnosis (CAD) for the Diagnosis of Breast Calcifications. Academic Radiology, 2006, 13, 84-94.                            | 1.3  | 28        |
| 119 | Fluorozirconate-based nanophase glass ceramics for high-resolution medical X-ray imaging. Journal of Non-Crystalline Solids, 2006, 352, 610-614.   | 1.5  | 25        |
| 120 | Can radiologists recognize that a computer has identified cancers that they have overlooked?. , 2006, 6146, 614601.  |      | 8         |
| 121 | Special Session on Breast CAD. International Journal of Computer Assisted Radiology and Surgery, 2006, 1, 325-343.   | 1.7  | 2         |
| 122 | Identification of simulated microcalcifications in white noise and mammographic backgrounds. Medical Physics, 2006, 33, 2905-2911.   | 1.6  | 25        |
| 123 | Computer-aided detection, in its present form, is not an effective aid for screening mammography. Medical Physics, 2006, 33, 811-814.  | 1.6  | 38        |
| 124 | Computerized mass detection for digital breast tomosynthesis directly from the projection images. Medical Physics, 2006, 33, 482-491.  | 1.6  | 85        |
| 125 | Mammogram Retrieval by Similarity Learning from Experts. , 2006, , .   |      | 2         |
| 126 | Development of an Analytic Breast Phantom for Quantitative Comparison of Reconstruction Algorithms for Digital Breast Tomosynthesis. Lecture Notes in Computer Science, 2006, , 190-196. | 1.0  | 9         |



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|-----|---|-----|-----------|
| 127 | Modeling the Effect of Computer-Aided Detection on the Sensitivity of Screening Mammography. Lecture Notes in Computer Science, 2006, , 46-53.  | 1.0 | 5         |
| 128 | Comparison of Computerized Image Analyses for Digitized Screen-Film Mammograms and Full-Field Digital Mammography Images. Lecture Notes in Computer Science, 2006, , 569-575.                                     | 1.0 | 3         |
| 129 | WE-C-330D-02: Image Science and CAD: In Pursuit of a Fundamental Theoretical Basis for CAD Development. Medical Physics, 2006, 33, 2231-2231.   | 1.6 | 0         |
| 130 | A study of several CAD methods for classification of clustered microcalcifications. , 2005, 5747, 1.  |     | 1         |
| 131 | Human performance for detection and discrimination of simulated microcalcifications in mammographic backgrounds. , 2005, 5749, 223.   |     | 1         |
| 132 | A relevance vector machine technique for the automatic detection of clustered microcalcifications (Honorable Mention Poster Award). , 2005, , .   |     | 4         |
| 133 | Relevance vector machine learning for detection of microcalcifications in mammograms. , 2005, , .   |     | 0         |
| 134 | A study on several Machine-learning methods for classification of Malignant and benign clustered microcalcifications. IEEE Transactions on Medical Imaging, 2005, 24, 371-380.                                    | 5.4 | 253       |
| 135 | The hypervolume under the ROC hypersurface of "Near-Guessing" and "Near-Perfect" observers in N-class classification tasks. IEEE Transactions on Medical Imaging, 2005, 24, 293-299.                              | 5.4 | 36        |
| 136 | A multi-scale 3D radial gradient filter for computerized mass detection in digital tomosynthesis breast images. International Congress Series, 2005, 1281, 1058-1062.   | 0.2 | 3         |
| 137 | Relevance vector machine for automatic detection of clustered microcalcifications. IEEE Transactions on Medical Imaging, 2005, 24, 1278-1285.   | 5.4 | 127       |
| 138 | SU-EE-A2-02: Efficient Automatic Pre-Selection of Mass Lesion Candidates in DBT Breast Volumes. Medical Physics, 2005, 32, 1897-1897.   | 1.6 | 0         |
| 139 | Investigation of physical image quality indices of a bone densitometry system. Medical Physics, 2004, 31, 873-881.  | 1.6 | 8         |
| 140 | Radial gradient-based segmentation of mammographic microcalcifications: Observer evaluation and effect on CAD performance. Medical Physics, 2004, 31, 2648-2657.  | 1.6 | 38        |
| 141 | High-efficiency white OLEDs based on small molecules. , 2004, 5214, 233.  |     | 16        |
| 142 | Computerized Detection of Mass Lesions in Digital Breast Tomosynthesis Images Using Two- and Three Dimensional Radial Gradient Index Segmentation. Technology in Cancer Research and Treatment, 2004, 3, 437-441. | 0.8 | 35        |
| 143 | Developments in OLEDs with a co-dopant system for improved efficiency and stability. , 2004, 5214, 31.  |     | 3         |
| 144 | A Similarity Learning Approach to Content-Based Image Retrieval: Application to Digital Mammography. IEEE Transactions on Medical Imaging, 2004, 23, 1233-1244.   | 5.4 | 243       |

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|-----|--|-----|-----------|
| 145 | Computer simulation of mammographic imaging for applications in CAD. International Congress Series, 2004, 1268, 890-895.   | 0.2 | 0         |
| 146 | Computerized detection of mammographic masses in digital breast tomosynthesis images using radial gradient index filtering. International Congress Series, 2004, 1268, 1352. | 0.2 | 2         |
| 147 | Hypervolume under the ROC hypersurface of a near-guessing ideal observer in a three-class classification task. , 2004, , .   |     | 3         |
| 148 | Use of BI-RADS lesion descriptors in computer-aided diagnosis of malignant and benign breast lesions. , 2004, , .  |     | 0         |
| 149 | A reconstruction-independent method for computerized mass detection in digital tomosynthesis images of the breast. , 2004, , .   |     | 4         |
| 150 | Human efficiency in the detection and discrimination tasks. , 2004, , .  |     | 1         |
| 151 | Computerized detection and 3-way classification of breast lesions on ultrasound images. , 2004, , .  |     | 5         |
| 152 | Observers' ability to judge the similarity of clustered calcifications on mammograms. , 2004, , .  |     | 17        |
| 153 | Standardization of NPS measurement: interim report of AAPM TG16. , 2003, , .   |     | 15        |
| 154 | The use of a priori information in the detection of mammographic microcalcifications to improve their classification. Medical Physics, 2003, 30, 823-831.                    | 1.6 | 20        |
| 155 | Estimating three-class ideal observer decision variables for computerized detection and classification of mammographic mass lesions. Medical Physics, 2003, 31, 81-90.       | 1.6 | 27        |
| 156 | Differences between mono- and poly-energetic spectra in modeling DQE(f). , 2003, , .   |     | 3         |
| 157 | Bayesian ANN estimates of three-class ideal observer decision variables for classification of mammographic masses. , 2003, 5034, 474.  |     | 2         |
| 158 | Automated selection of BI-RADS lesion descriptors for reporting calcifications in mammograms. , 2003, , .  |     | 0         |
| 159 | Effect of radiologists' variability on the performance of computer classification of malignant and benign clustered microcalcifications in mammograms. , 2003, 5034, 42.     |     | 0         |
| 160 | Results of an Observer Study with an Intelligent Mammographic Workstation for CAD. , 2003, , 297-303.  |     | 9         |
| 161 | Full Field Digital Mammography with a CCD Based Slot-Scanned Detector. Physical Characteristics Measurement. , 2003, , 51-53.  |     | 0         |
| 162 | Improved computerized detection of individual microcalcifications to integrate cluster detection and classification schemes. , 2003, , 411-413.                              |     | 0         |

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|-----|--|-----|-----------|
| 163 | The Effect of Scatter Radiation and its Removal on the DQE of Digital Mammography Systems. , 2003, , 59-63.  |     | 1         |
| 164 | Maximum likelihood fitting of FROC curves under an initial-detection-and-candidate-analysis model. Medical Physics, 2002, 29, 2861-2870.                                   | 1.6 | 69        |
| 165 | Detection of Microcalcifications. , 2002, , .  |     | 15        |
| 166 | <title>Estimation of three-class ideal observer decision functions with a Bayesian artificial neural network</title>. , 2002, , .  |     | 9         |
| 167 | <title>Independent versus sequential reading in ROC studies of computer-assist modalities</title>. , 2002, , .   |     | 2         |
| 168 | Improving the automated classification of clustered calcifications on mammograms through the improved detection of individual calcifications. , 2002, , .                  |     | 1         |
| 169 | A support vector machine approach for detection of microcalcifications. IEEE Transactions on Medical Imaging, 2002, 21, 1552-1563.   | 5.4 | 475       |
| 170 | Intelligent CAD workstation for breast imaging using similarity to known lesions and multiple visual prompt aids. , 2002, 4684, 768.                                       |     | 36        |
| 171 | Independent versus Sequential Reading in ROC Studies of Computer-Assist Modalities. Academic Radiology, 2002, 9, 1036-1043.  | 1.3 | 37        |
| 172 | Dependence of computer classification of clustered microcalcifications on the correct detection of microcalcifications. Medical Physics, 2001, 28, 1949-1957.              | 1.6 | 14        |
| 173 | <title>Can computer-aided diagnosis (CAD) help radiologists find mammographically missed screening cancers?</title>. , 2001, 4324, 56.                                     |     | 3         |
| 174 | <title>Analysis of components of variance in multiple-reader studies of computer-aided diagnosis with different tasks</title>. , 2001, , .                                 |     | 2         |
| 175 | <title>Eliminating false-positive microcalcification clusters in a mammography CAD scheme using a Bayesian neural network</title>. , 2001, , .                             |     | 5         |
| 176 | Potential of Computer-aided Diagnosis to Reduce Variability in Radiologistsâ€™ Interpretations of Mammograms Depicting Microcalcifications. Radiology, 2001, 220, 787-794. | 3.6 | 133       |
| 177 | <title>Estimation of linear observer templates in the presence of multi-peaked gaussian noise through 2AFC experiments</title>. , 2000, , .                                |     | 2         |
| 178 | <title>Relative gains in diagnostic accuracy between computer-aided diagnosis and independent double reading</title>. , 2000, 3981, 10.                                    |     | 5         |
| 179 | Radiologistsâ€™ Preferences for Digital Mammographic Display. Radiology, 2000, 216, 820-830.   | 3.6 | 78        |
| 180 | COMPUTER-AIDED DETECTION AND DIAGNOSIS OF BREAST CANCER. Radiologic Clinics of North America, 2000, 38, 725-740.   | 0.9 | 80        |

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