Elizabeth S Burnside

List of Publications by Citations

140 papers	3,198 citations	29 h-index	52 g-index
146 ext. papers	3,965 ext. citations	5.9 avg, IF	4.96 L-index

#	Paper	IF	Citations
140	Differentiating benign from malignant solid breast masses with US strain imaging. *Radiology*, **2007**, 245, 401-10	20.5	241
139	Quantitative MRI radiomics in the prediction of molecular classifications of breast cancer subtypes in the TCGA/TCIA data set. *Npj Breast Cancer*, **2016**, 2,	7.8	200
138	The ACR BI-RADS experience: learning from history. *Journal of the American College of Radiology*, **2009**, 6, 851-60	3.5	188
137	Toward best practices in radiology reporting. *Radiology*, **2009**, 252, 852-6	20.5	151
136	Use of microcalcification descriptors in BI-RADS 4th edition to stratify risk of malignancy. *Radiology*, **2007**, 242, 388-95	20.5	137
135	A Population-Based Study of Genes Previously Implicated in Breast Cancer. *New England Journal of Medicine*, **2021**, 384, 440-451	59.2	115
134	Prediction of clinical phenotypes in invasive breast carcinomas from the integration of radiomics and genomics data. *Journal of Medical Imaging*, **2015**, 2, 041007	2.6	99
133	Informatics in radiology: comparison of logistic regression and artificial neural network models in breast cancer risk estimation. *Radiographics*, **2010**, 30, 13-22	5.4	96
132	Effects of screening and systemic adjuvant therapy on ER-specific US breast cancer mortality. *Journal of the National Cancer Institute*, **2014**, 106,	9.7	92
131	Bayesian network to predict breast cancer risk of mammographic microcalcifications and reduce number of benign biopsy results: initial experience. *Radiology*, **2006**, 240, 666-73	20.5	77
130	Breast cancer risk estimation with artificial neural networks revisited: discrimination and calibration. *Cancer*, **2010**, 116, 3310-21	6.4	76
129	Probabilistic computer model developed from clinical data in national mammography database format to classify mammographic findings. *Radiology*, **2009**, 251, 663-72	20.5	69
128	Differential value of comparison with previous examinations in diagnostic versus screening mammography. *American Journal of Roentgenology*, **2002**, 179, 1173-7	5.4	66
127	Circulating serum xenoestrogens and mammographic breast density. *Breast Cancer Research*, **2013**, 15, R45	8.3	65
126	Optimal Breast Biopsy Decision-Making Based on Mammographic Features and Demographic Factors. *Operations Research*, **2010**, 58, 1577-1591	2.3	60
125	A logistic regression model based on the national mammography database format to aid breast cancer diagnosis. *American Journal of Roentgenology*, **2009**, 192, 1117-27	5.4	57
124	Using computer-extracted image phenotypes from tumors on breast magnetic resonance imaging to predict breast cancer pathologic stage. *Cancer*, **2016**, 122, 748-57	6.4	48

123	The National Mammography Database: Preliminary Data. *American Journal of Roentgenology*, **2016**, 206, 883-90	5.4	45
122	CT Colonography Reporting and Data System (C-RADS): benchmark values from a clinical screening program. *American Journal of Roentgenology*, **2014**, 202, 1232-7	5.4	45
121	The use of batch reading to improve the performance of screening mammography. *American Journal of Roentgenology*, **2005**, 185, 790-6	5.4	41
120	Axial-shear strain imaging for differentiating benign and malignant breast masses. *Ultrasound in Medicine and Biology*, **2010**, 36, 1813-24	3.5	40
119	Information Extraction for Clinical Data Mining: A Mammography Case Study. *IEEE International Conference on Data Mining*, **2009**, 37-42		39
118	Computer-aided diagnostic models in breast cancer screening. *Imaging in Medicine*, **2010**, 2, 313-323	1	34
117	Automatic classification of mammography reports by BI-RADS breast tissue composition class. *Journal of the American Medical Informatics Association: JAMIA*, **2012**, 19, 913-6	8.6	34
116	The Effect of Budgetary Restrictions on Breast Cancer Diagnostic Decisions. *Manufacturing and Service Operations Management*, **2012**, 14, 600-617	4.6	32
115	Movement of a biopsy-site marker clip after completion of stereotactic directional vacuum-assisted breast biopsy: case report. *Radiology*, **2001**, 221, 504-7	20.5	32
114	Association of Patient Age With Outcomes of Current-Era, Large-Scale Screening Mammography: Analysis of Data From the National Mammography Database. *JAMA Oncology*, **2017**, 3, 1134-1136	13.4	31
113	The mammographic density of a mass is a significant predictor of breast cancer. *Radiology*, **2011**, 258, 417-25	20.5	30
112	Interpreting data from audits when screening and diagnostic mammography outcomes are combined. *American Journal of Roentgenology*, **2002**, 178, 681-6	5.4	30
111	Utility of 6-month follow-up imaging after a concordant benign breast biopsy result. *Radiology*, **2011**, 258, 380-7	20.5	27
110	Circulating sex hormones and mammographic breast density among postmenopausal women. *Hormones and Cancer*, **2011**, 2, 62-72	5	26
109	Screening Breast MRI Outcomes in Routine Clinical Practice: Comparison to BI-RADS Benchmarks. *Academic Radiology*, **2017**, 24, 411-417	4.3	25
108	ACR BI-RADS Assessment Category 4 Subdivisions in Diagnostic Mammography: Utilization and Outcomes in the National Mammography Database. *Radiology*, **2018**, 287, 416-422	20.5	25
107	Bayesian networks: computer-assisted diagnosis support in radiology. *Academic Radiology*, **2005**, 12, 422-30	4.3	25
106	Artificial neural networks in mammography interpretation and diagnostic decision making. *Computational and Mathematical Methods in Medicine*, **2013**, 2013, 832509	2.8	24

105	Using automatically extracted information from mammography reports for decision-support. *Journal of Biomedical Informatics*, **2016**, 62, 224-31	10.2	24
104	Variation in diagnostic performance among radiologists at screening CT colonography. *Radiology*, **2013**, 268, 127-34	20.5	23
103	The impact of alternative practices on the cost and quality of mammographic screening in the United States. *Clinical Breast Cancer*, **2001**, 2, 145-52	3	23
102	Long-Term Outcomes and Cost-Effectiveness of Breast Cancer Screening With Digital Breast Tomosynthesis in the United States. *Journal of the National Cancer Institute*, **2020**, 112, 582-589	9.7	23
101	Breast MRI radiomics: comparison of computer- and human-extracted imaging phenotypes. *European Radiology Experimental*, **2017**, 1, 22	4.5	22
100	Healthcare Intelligence: Turning Data into Knowledge. *IEEE Intelligent Systems*, **2014**, 29, 54-68	4.2	20
99	Impact of axillary ultrasound and core needle biopsy on the utility of intraoperative frozen section analysis and treatment decision making in women with invasive breast cancer. *American Journal of Surgery*, **2012**, 204, 308-14	2.7	20
98	Optimal Policies for Reducing Unnecessary Follow-up Mammography Exams in Breast Cancer Diagnosis. *Decision Analysis*, **2013**, 10, 200-224	1.2	20
97	An Integrated Approach to Learning Bayesian Networks of Rules. *Lecture Notes in Computer Science* , **2005**, 84-95	0.9	20
96	Utility of BI-RADS Assessment Category 4 Subdivisions for Screening Breast MRI. *American Journal of Roentgenology*, **2017**, 208, 1392-1399	5.4	19
95	A comprehensive methodology for determining the most informative mammographic features. *Journal of Digital Imaging*, **2013**, 26, 941-7	5.3	19
94	Fluorescence spectroscopy: an adjunct diagnostic tool to image-guided core needle biopsy of the breast. *IEEE Transactions on Biomedical Engineering*, **2009**, 56, 2518-28	5	19
93	A probabilistic expert system that provides automated mammographic-histologic correlation: initial experience. *American Journal of Roentgenology*, **2004**, 182, 481-8	5.4	19
92	Modeling Ductal Carcinoma In Situ (DCIS): An Overview of CISNET Model Approaches. *Medical Decision Making*, **2018**, 38, 126S-139S	2.5	17
91	The vitamin D pathway and mammographic breast density among postmenopausal women. *Breast Cancer Research and Treatment*, **2012**, 131, 255-65	4.4	17
90	American College Of Radiology/Society of Breast Imaging curriculum for resident and fellow education in breast imaging. *Journal of the American College of Radiology*, **2006**, 3, 879-84	3.5	15
89	Development of an online, publicly accessible naive Bayesian decision support tool for mammographic mass lesions based on the American College of Radiology (ACR) BI-RADS lexicon. *European Radiology*, **2015**, 25, 1768-75	8	14
88	Cancer Yield and Patterns of Follow-up for BI-RADS Category 3 after Screening Mammography Recall in the National Mammography Database. *Radiology*, **2020**, 296, 32-41	20.5	14

87	What is the optimal threshold at which to recommend breast biopsy?. *PLoS ONE*, **2012**, 7, e48820	3.7	14
86	Socioeconomic disparities in the decline in invasive breast cancer incidence. *Breast Cancer Research and Treatment*, **2010**, 122, 873-8	4.4	14
85	New genetic variants improve personalized breast cancer diagnosis. *AMIA Summits on Translational Science Proceedings*, **2014**, 2014, 83-9	1.1	13
84	Support Vector Machines for Differential Prediction. *Lecture Notes in Computer Science*, **2014**, 8725, 50-65	0.9	13
83	Risk of Breast Cancer Among Carriers of Pathogenic Variants in Breast Cancer Predisposition Genes Varies by Polygenic Risk Score. *Journal of Clinical Oncology*, **2021**, 39, 2564-2573	2.2	12
82	Mammography Screening: Gaps in Patient's and Physician's Needs for Shared Decision-Making. *Breast Journal*, **2017**, 23, 210-214	1.2	11
81	Association between Screening Mammography Recall Rate and Interval Cancers in the UK Breast Cancer Service Screening Program: A Cohort Study. *Radiology*, **2018**, 288, 47-54	20.5	11
80	Comparing CISNET Breast Cancer Incidence and Mortality Predictions to Observed Clinical Trial Results of Mammography Screening from Ages 40 to 49. *Medical Decision Making*, **2018**, 38, 140S-150S	2.5	11
79	Key Elements of Mammography Shared Decision-Making: a Scoping Review of the Literature. *Journal of General Internal Medicine*, **2018**, 33, 1805-1814	4	11
78	Validation of results from knowledge discovery: mass density as a predictor of breast cancer. *Journal of Digital Imaging*, **2010**, 23, 554-61	5.3	11
77	Feasibility of near-infrared diffuse optical spectroscopy on patients undergoing imageguided core-needle biopsy. *Optics Express*, **2007**, 15, 7335-50	3.3	11
76	Knowledge discovery from structured mammography reports using inductive logic programming **2005**, 96-100	0.7	11
75	Modeling the natural history of ductal carcinoma in situ based on population data. *Breast Cancer Research*, **2020**, 22, 53	8.3	10
74	Extracting BI-RADS Features from Portuguese Clinical Texts **2012**, 1-4	0.8	10
73	A preliminary report on the role of spatial frequency analysis in the perception of breast cancers missed at mammography screening. *Academic Radiology*, **2004**, 11, 894-908	4.3	10
72	Genetic variants improve breast cancer risk prediction on mammograms **2013**, 2013, 876-85	0.7	10
71	Using a Bayesian network to predict the probability and type of breast cancer represented by microcalcifications on mammography. *Studies in Health Technology and Informatics*, **2004**, 107, 13-7	0.5	10
70	Uncovering age-specific invasive and DCIS breast cancer rules using inductive logic programming **2010**,		9

69	Age-based versus Risk-based Mammography Screening in Women 40-49 Years Old: A Cross-sectional Study. *Radiology*, **2019**, 292, 321-328	20.5	8
68	Online support: Impact on anxiety in women who experience an abnormal screening mammogram. *Breast*, **2014**, 23, 743-8	3.6	8
67	Proposing New RadLex Terms by Analyzing Free-Text Mammography Reports. *Journal of Digital Imaging*, **2018**, 31, 596-603	5.3	7
66	Comparing Mammography Abnormality Features to Genetic Variants in the Prediction of Breast Cancer in Women Recommended for Breast Biopsy. *Academic Radiology*, **2016**, 23, 62-9	4.3	7
65	Breast Cancer Screening in Primary Care: A Call for Development and Validation of Patient-Oriented Shared Decision-Making Tools. *Journal of Women's Health*, **2019**, 28, 114-116	3	7
64	Relationships Between Human-Extracted MRI Tumor Phenotypes of Breast Cancer and Clinical Prognostic Indicators Including Receptor Status and Molecular Subtype. *Current Problems in Diagnostic Radiology*, **2019**, 48, 467-472	1.6	7
63	Predicting invasive breast cancer versus DCIS in different age groups. *BMC Cancer*, **2014**, 14, 584	4.8	7
62	Developing a comprehensive database management system for organization and evaluation of mammography datasets. *Cancer Informatics*, **2014**, 13, 53-62	2.4	7
61	Predicting malignancy from mammography findings and image-guided core biopsies. *International Journal of Data Mining and Bioinformatics*, **2015**, 11, 257-76	0.5	7
60	Addressing the challenge of assessing physician-level screening performance: mammography as an example. *PLoS ONE*, **2014**, 9, e89418	3.7	7
59	Core Elements of Shared Decision-making for Women Considering Breast Cancer Screening: Results of a Modified Delphi Survey. *Journal of General Internal Medicine*, **2020**, 35, 1668-1677	4	6
58	Using Collaborative Simulation Modeling to Develop a Web-Based Tool to Support Policy-Level Decision Making About Breast Cancer Screening Initiation Age. *MDM Policy and Practice*, **2017**, 2,	1.5	6
57	External validation of a publicly available computer assisted diagnostic tool for mammographic mass lesions with two high prevalence research datasets. *Medical Physics*, **2015**, 42, 4987-96	4.4	6
56	SkILL - A Stochastic Inductive Logic Learner **2015**,		6
55	Score As You Lift (SAYL): A Statistical Relational Learning Approach to Uplift Modeling. *Lecture Notes in Computer Science*, **2013**, 8190, 595-611	0.9	6
54	Using Machine Learning to Identify Benign Cases with Non-Definitive Biopsy **2013**, 2013, 283-285		5
53	Mammographic breast density and serum phytoestrogen levels. *Nutrition and Cancer*, **2012**, 64, 783-9	2.8	5
52	Image-based screening for men at high risk for breast cancer: Benefits and drawbacks. *Clinical Imaging*, **2020**, 60, 84-89	2.7	5

51	Interpretable models to predict Breast Cancer **2016**,		5
50	Operationalization, implementation, and evaluation of Collaboration Planning: A pilot interventional study of nascent translational teams. *Journal of Clinical and Translational Science*, **2020**, 5, e23	0.4	5
49	Urinary Magnesium and Other Elements in Relation to Mammographic Breast Density, a Measure of Breast Cancer Risk. *Nutrition and Cancer*, **2018**, 70, 441-446	2.8	4
48	A history of breast cancer and older age allow risk stratification of mammographic BI-RADS 3 ratings in the diagnostic setting. *Clinical Imaging*, **2016**, 40, 200-4	2.7	4
47	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	3.5	4
46	**2017**,		4
45	Cost benefits of picture archiving and communications systems. *Academic Radiology*, **1996**, 3 Suppl 1, S72-4	4.3	4
44	Logical Differential Prediction Bayes Net, improving breast cancer diagnosis for older women **2012**, 2012, 1330-9	0.7	4
43	Comparing the value of mammographic features and genetic variants in breast cancer risk prediction **2014**, 2014, 1228-37	0.7	4
42	Structure-Leveraged Methods in Breast Cancer Risk Prediction. *Journal of Machine Learning Research*, **2016**, 17,	28.6	4
41	Relational Differential Prediction. *Lecture Notes in Computer Science*, **2012**, 617-632	0.9	4
40	Quantitative breast density analysis to predict interval and node-positive cancers in pursuit of improved screening protocols: a case-control study. *British Journal of Cancer*, **2021**, 125, 884-892	8.7	4
39	Enhancing reproducibility using interprofessional team best practices. *Journal of Clinical and Translational Science*, **2020**, 5, e20	0.4	4
38	A National Study of the Use of Asymptomatic Systemic Imaging for Surveillance Following Breast Cancer Treatment (AFT-01). *Annals of Surgical Oncology*, **2018**, 25, 2587-2595	3.1	4
37	Developing a clinical utility framework to evaluate prediction models in radiogenomics. *Proceedings of SPIE*, **2015**, 9416,	1.7	3
36	Pursuing optimal thresholds to recommend breast biopsy by quantifying the value of tomosynthesis. *Proceedings of SPIE*, **2014**, 9037, 90370U	1.7	3
35	Double-exposure artifact mimicking a cervical spine fracture on computed radiography. *American Journal of Roentgenology*, **2000**, 174, 264	5.4	3
34	Risk of Late-Onset Breast Cancer in Genetically Predisposed Women. *Journal of Clinical Oncology*, **2021**, 39, 3430-3440	2.2	3

33	Utility of Clinical Breast Examinations in Detecting Local-Regional Breast Events After Breast-Conservation in Women with a Personal History of High-Risk Breast Cancer. *Annals of Surgical Oncology*, **2016**, 23, 3385-91	3.1	3
32	Preference-Sensitive Management of Post-Mammography Decisions in Breast Cancer Diagnosis. *Production and Operations Management*, **2018**, 27, 2313-2338	3.6	3
31	Developing a utility decision framework to evaluate predictive models in breast cancer risk estimation. *Journal of Medical Imaging*, **2015**, 2, 041005	2.6	2
30	Discriminatory power of common genetic variants in personalized breast cancer diagnosis. *Proceedings of SPIE*, **2016**, 9787,	1.7	2
29	ExpertBayes: Automatically refining manually built Bayesian networks **2014**, 2014, 362-366		2
28	Predicting Malignancy from Mammography Findings and Surgical Biopsies **2011**, 2011,	0.8	2
27	Improving a Bayesian network's ability to predict the probability of malignancy of microcalcifications on mammography. *International Congress Series*, **2004**, 1268, 1021-1026		2
26	A Bayesian Network to Assist Mammography Interpretation **2005**, 695-720		2
25	Quantifying predictive capability of electronic health records for the most harmful breast cancer. *Proceedings of SPIE*, **2018**, 10577,	1.7	2
24	Opportunities for Operations Research in Medical Decision Making. *IEEE Intelligent Systems*, **2014**, 29, 59-62	4.2	2
23	Leveraging Expert Knowledge to Improve Machine-Learned Decision Support Systems. *AMIA Summits on Translational Science Proceedings*, **2015**, 2015, 87-91	1.1	2
22	Utility of Genetic Testing in Addition to Mammography for Determining Risk of Breast Cancer Depends on Patient Age. *AMIA Summits on Translational Science Proceedings*, **2018**, 2017, 81-90	1.1	2
21	Comparative effectiveness of incorporating a hypothetical DCIS prognostic marker into breast cancer screening. *Breast Cancer Research and Treatment*, **2018**, 168, 229-239	4.4	2
20	USING FINITE-HORIZON MARKOV DECISION PROCESSES FOR OPTIMIZING POST-MAMMOGRAPHY DIAGNOSTIC DECISIONS **2018**, 183-200		1
19	A Speech-to-Text Interface for MammoClass **2016**,		1
18	A Utility/Cost Analysis of Breast Cancer Risk Prediction Algorithms. *Proceedings of SPIE*, **2016**, 9787,	1.7	1
17	Mammography Performance Benchmarks in an Era of Value-based Care. *Radiology*, **2017**, 284, 605-607	20.5	1
16	Merrill C. Sosman Lecture. Surviving managed care. *American Journal of Roentgenology*, **1997**, 169, 3-10	5.4	1

15	Multiple Testing under Dependence via Semiparametric Graphical Models. *JMLR Workshop and Conference Proceedings*, **2014**, 32, 955-963		1
14	Leveraging Interaction between Genetic Variants and Mammographic Findings for Personalized Breast Cancer Diagnosis. *AMIA Summits on Translational Science Proceedings*, **2015**, 2015, 107-11	1.1	1
13	Preference-Sensitive Management of Post-Mammography Decisions in Breast Cancer Diagnosis. *SSRN Electronic Journal*,	1	1
12	High-dimensional regression analysis links magnetic resonance imaging features and protein expression and signaling pathway alterations in breast invasive carcinoma. *Oncoscience*, **2018**, 5, 39-48	0.8	1
11	A Probabilistic Model to Support RadiologistsTClassification Decisions in Mammography Practice. *Medical Decision Making*, **2019**, 39, 208-216	2.5	0
10	Framing the Clinical Encounter: Shared Decision-Making, Mammography Screening, and Decision Satisfaction. *Journal of Health Communication*, **2020**, 25, 681-691	2.5	0
9	Preliminary Evaluation of a Breast Cancer Screening Shared Decision-Making Aid Utilized Within the Primary Care Clinical Encounter. *Journal of Patient Experience*, **2021**, 8, 23743735211034039	1.3	0
8	A Collective Ranking Method for Genome-wide Association Studies **2012**, 2012, 313-320		
7	The effects of training parameters on learning a probabilistic expert system for mammography. *International Congress Series*, **2004**, 1268, 1027-1032		
6	A novel method to assess incompleteness of mammography reports **2014**, 2014, 1758-67	0.7	
5	Improving breast cancer risk prediction by using demographic risk factors, abnormality features on mammograms and genetic variants **2018**, 2018, 1253-1262	0.7	
4	Comparison of screening full-field digital mammography and digital breast tomosynthesis technical recalls. *Journal of Medical Imaging*, **2019**, 6, 031403	2.6	
3	BPI19-012: Differences in Stakeholder Perspectives Regarding Key Components of Shared Decision-Making for Mammography in Breast Cancer Screening for Women Ages 40-50. *Journal of the National Comprehensive Cancer Network: JNCCN*, **2019**, 17, BPI19-012	7.3	
2	Anleitung/Hilfestellung **2016**, 131-154		
1	Boosting First-Order Clauses for Large, Skewed Data Sets. *Lecture Notes in Computer Science*, **2010**, 166-177		0