Brandon D Gallas

List of Publications by Year
in descending order

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83	2,876	304743	182427
papers	citations	22	51
		h-index	g-index

84	84	84	4503
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The MicroArray Quality Control (MAQC)-II study of common practices for the development and validation of microarray-based predictive models. Nature Biotechnology, 2010, 28, 827-838.	17.5	795
2	Comparing two correlated C indices with rightâ€censored survival outcome: a oneâ€shot nonparametric approach. Statistics in Medicine, 2015, 34, 685-703.	1.6	263
3	Effect of training-sample size and classification difficulty on the accuracy of genomic predictors. Breast Cancer Research, 2010, 12, R5.	5.0	169
4	Validating the use of channels to estimate the ideal linear observer. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2003, 20, 1725.	1.5	132
5	One-Shot Estimate of MRMC Variance: AUC. Academic Radiology, 2006, 13, 353-362.	2.5	124
6	Pitfalls in assessing stromal tumor infiltrating lymphocytes (sTILs) in breast cancer. Npj Breast Cancer, 2020, 6, 17.	5.2	106
7	Observer Variability in the Interpretation of HER2/neu Immunohistochemical Expression With Unaided and Computer-Aided Digital Microscopy. Archives of Pathology and Laboratory Medicine, 2011, 135, 233-242.	2.5	106
8	Report on computational assessment of Tumor Infiltrating Lymphocytes from the International Immuno-Oncology Biomarker Working Group. Npj Breast Cancer, 2020, 6, 16.	5.2	90
9	Channelized Hotelling observers for the assessment of volumetric imaging data sets. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2011, 28, 1145.	1.5	84
10	<title>Stabilized estimates of Hotelling-observer detection performance in patient-structured noise</title>. , 1998, , .		68
11	A Framework for Random-Effects ROC Analysis: Biases with the Bootstrap and Other Variance Estimators. Communications in Statistics - Theory and Methods, 2009, 38, 2586-2603.	1.0	58
12	Lubberts effect in columnar phosphors. Medical Physics, 2004, 31, 3122-3131.	3.0	55
13	Observer variability in the interpretation of HER2/neu immunohistochemical expression with unaided and computer-aided digital microscopy. Archives of Pathology and Laboratory Medicine, 2011, 135, 233-42.	2.5	46
14	Multireader multicase variance analysis for binary data. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2007, 24, B70.	1.5	42
15	Multi-reader ROC Studies with Split-plot Designs. Academic Radiology, 2012, 19, 1508-1517.	2.5	42
16	Toward objective and quantitative evaluation of imaging systems using images of phantoms. Medical Physics, 2005, 33, 83-95.	3.0	39
17	Exact Confidence Intervals for Channelized Hotelling Observer Performance in Image Quality Studies. IEEE Transactions on Medical Imaging, 2015, 34, 453-464.	8.9	36
18	Incorporating Human Contrast Sensitivity in Model Observers for Detection Tasks. IEEE Transactions on Medical Imaging, 2009, 28, 339-347.	8.9	33

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19	Megalopinakophobia: its symptoms and cures. , 2001, , .		32
20	Observer Performance in the Use of Digital and Optical Microscopy for the Interpretation of Tissue-Based Biomarkers. Analytical Cellular Pathology, 2014, 2014, 1-10.	1.4	28
21	Reader studies for validation of CAD systems. Neural Networks, 2008, 21, 387-397.	5.9	26
22	On the assessment of the added value of new predictive biomarkers. BMC Medical Research Methodology, 2013, 13, 98.	3.1	25
23	An energy- and depth-dependent model for x-ray imaging. Medical Physics, 2004, 31, 3132-3149.	3.0	23
24	Validation of mitotic cell quantification via microscopy and multiple whole-slide scanners. Diagnostic Pathology, 2019, 14, 65.	2.0	23
25	Image Browsing in Slow Medical Liquid Crystal Displays. Academic Radiology, 2008, 15, 370-382.	2.5	21
26	Three-Class ROC Analysisâ€"Toward a General Decision Theoretic Solution. IEEE Transactions on Medical Imaging, 2010, 29, 206-215.	8.9	21
27	A Regulatory Science Initiative to Harmonize and Standardize Digital Pathology and Machine Learning Processes to Speed up Clinical Innovation to Patients. Journal of Pathology Informatics, 2020, 11, 22.	1.7	19
28	Generalized Roe and Metz receiver operating characteristic model: analytic link between simulated decision scores and empirical AUC variances and covariances. Journal of Medical Imaging, 2014, 1, 031006.	1.5	17
29	A Pathologist-Annotated Dataset for Validating Artificial Intelligence: A Project Description and Pilot Study. Journal of Pathology Informatics, 2021, 12, 45.	1.7	17
30	Variance of the channelized-hotelling observer from a finite number of trainers and testers. , 2003, , .		16
31	Classifier variability: Accounting for training and testing. Pattern Recognition, 2012, 45, 2661-2671.	8.1	16
32	Computerized characterization of lung nodule subtlety using thoracic CT images. Physics in Medicine and Biology, 2014, 59, 897-910.	3.0	16
33	Agreement in Histological Assessment of Mitotic Activity Between Microscopy and Digital Whole Slide Images Informs Conversion for Clinical Diagnosis. Academic Pathology, 2019, 6, 2374289519859841.	1.1	16
34	Efficiency of the human observer for detecting a Gaussian signal at a known location in non-Gaussian distributed lumpy backgrounds. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2007, 24, 911.	1.5	15
35	Singular value description of a digital radiographic detector: Theory and measurements. Medical Physics, 2008, 35, 4744-4756.	3.0	13
36	Efficiency of the human observer compared to an ideal observer based on a generalized NEQ which incorporates scatter and geometric unsharpness: evaluation with a 2AFC experiment. , 2005, 5749, 251-262.		12

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37	Multireader multicase reader studies with binary agreement data: simulation, analysis, validation, and sizing. Journal of Medical Imaging, 2014, 1, 031011.	1.5	12
38	Detectability Decreases With Off-Normal Viewing in Medical Liquid Crystal Displays. Academic Radiology, 2006, 13, 210-218.	2.5	11
39	Statistical Power Considerations for a Utility Endpoint in Observer Performance Studies. Academic Radiology, 2013, 20, 798-806.	2.5	11
40	Evaluation environment for digital and analog pathology: a platform for validation studies. Journal of Medical Imaging, 2014, 1, 037501.	1.5	11
41	Paired split-plot designs of multireader multicase studies. Journal of Medical Imaging, 2018, 5, 1.	1.5	11
42	Effect of viewing angle on visual detection in liquid crystal displays. , 2003, , .		10
43	The Importance of ROC Data. Academic Radiology, 2011, 18, 257-258.	2.5	10
44	A practical method for measuring the H matrix of digital x-ray and cone beam CT imaging systems. , 2006, 6142, 652.		8
45	Impact of prevalence and case distribution in lab-based diagnostic imaging studies. Journal of Medical Imaging, 2019, 6, 1.	1.5	8
46	Assessing color reproducibility of whole-slide imaging scanners. Proceedings of SPIE, 2013, , .	0.8	7
47	The equivalence of a human observer and an ideal observer in binary diagnostic tasks. Proceedings of SPIE, 2013, , .	0.8	6
48	A method to estimate the point response function of digital x-ray detectors from edge measurements. , 2007, , .		5
49	Evaluating whole slide imaging: A working group opportunity. Journal of Pathology Informatics, 2015, 6, 4.	1.7	5
50	Sensitivity of Time-Resolved Fluorescence Analysis Methods for Disease Detection. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 877-885.	2.9	4
51	Uncertainty estimation with a finite dataset in the assessment of classification models. Computational Statistics and Data Analysis, 2012, 56, 1016-1027.	1.2	4
52	Development of Training Materials for Pathologists to Provide Machine Learning Validation Data of Tumor-Infiltrating Lymphocytes in Breast Cancer. Cancers, 2022, 14, 2467.	3.7	4
53	<title>Assessment of lesion detectability of Monte Carlo modeling of digital radiography systems</title>. , 2002, , .		3
54	Visual detection with non-Lambertian displays: model and human observer results. , 2005, , .		3

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55	Statistical properties of a utility measure of observer performance compared to area under the ROC curve. Proceedings of SPIE, 2013, , .	0.8	3
56	Comparative Statistical Properties ofÂExpected Utility and Area Under theÂROC Curve for Laboratory Studies of Observer Performance inÂScreening Mammography. Academic Radiology, 2014, 21, 481-490.	2.5	3
57	Using ANOVA/random-effects variance estimates to compute a two-sampleU-statistic of order (1,1) estimate of variance. Journal of Statistical Theory and Practice, 2016, 10, 87-99.	0.5	3
58	Evaluating whole slide imaging: A working group opportunity. Journal of Pathology Informatics, 2015, 6, 4.	0.6	3
59	Influence of panel size and expert skill on truth panel performance when combining expert ratings. , 2005, 5749, 49.		2
60	A contrast-sensitive channelized-Hotelling observer to predict human performance in a detection task using lumpy backgrounds and Gaussian signals. , 2007, , .		2
61	Training variability in the evaluation of automated classifiers. Proceedings of SPIE, 2010, , .	0.8	2
62	eeDAP: An evaluation environment for digital and analog pathology. Proceedings of SPIE, 2014, 9037, .	0.8	2
63	Impact of different study populations on reader behavior and performance metrics: initial results. Proceedings of SPIE, 2017, 10136, .	0.8	2
64	FDA fosters innovative approaches in research, resources and collaboration. Nature Machine Intelligence, 2022, 4, 97-98.	16.0	2
65	Advancing Research on Medical Image Perception by Strengthening Multidisciplinary Collaboration. JNCI Cancer Spectrum, 2022, 6, .	2.9	2
66	Human efficiency for detecting Gaussian signals in non-Gaussian distributed lumpy backgrounds using different display characteristics and scaling methods. , 2006, , .		1
67	Performance Studies for Validation of CAD Systems. Neural Networks (IJCNN), International Joint Conference on, 2007, , .	0.0	1
68	15.2:Distinguished Paper: Assessment of Temporal Blur-Reduction Methods Using a Computational Observer that Predicts Human Performance. Digest of Technical Papers SID International Symposium, 2007, 38, 967-970.	0.3	1
69	Assessment of display temporal response using a computational observer. Journal of the Society for Information Display, 2008, 16, 21.	2.1	1
70	Comparison of classifier performance estimators: a simulation study. Proceedings of SPIE, 2009, , .	0.8	1
71	Comparison of ROC methods for partially paired data. , 2009, , .		1
72	Uncertainty in the assessment of immunohistochemical staining with optical and digital microscopy: lessons from a reader study. , 2015, , .		1

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73	Efficiency gain of paired split-plot designs in MRMC ROC studies. , 2018, , .		1
74	Registration accuracy between whole slide images and glass slides in eeDAP workflow. , 2018, , .		1
75	Three-Way Mixed Effect ANOVA to Estimate MRMC Limits of Agreement. Statistics in Biopharmaceutical Research, 0, , 1-10.	0.8	1
76	<title>Signal detection in a lumpy background: effects of providing more information to the human than just raw data</title>. , 1999, , .		0
77	METHODS FOR MRMC ROC ANALYSIS AND COMPONENTS-OFVARIANCE MODELING USING COLPOSCOPY IMAGES. , 2007, , .		0
78	Effect of slow display on stack-mode reading of volumetric image datasets using an anthropomorphic observer. , 2007, , .		0
79	Pooling MRMC forced-choice data. , 2007, , .		0
80	Comparing agreement measures. Proceedings of SPIE, 2008, , .	0.8	0
81	MRMC analysis of agreement studies. Proceedings of SPIE, 2016, 9787, .	0.8	0
82	Leveraging the Digital Mammography Image Screening Trial (DMIST) Data for the Evaluation of Computer-Aided Detection (CAD) Devices: A Proposal. Lecture Notes in Computer Science, 2006, , 565-568.	1.3	0
83	Single reader between-cases AUC estimator with nested data. Statistical Methods in Medical Research, 0, , 096228022211115.	1.5	0