

Brandon D Gallas

List of Publications by Year in descending order

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83
papers

2,876
citations

304743

22
h-index

182427

51
g-index

84
all docs

84
docs citations

84
times ranked

4503
citing authors

#	ARTICLE	IF	CITATIONS
1	FDA fosters innovative approaches in research, resources and collaboration. Nature Machine Intelligence, 2022, 4, 97-98.	16.0	2
2	Advancing Research on Medical Image Perception by Strengthening Multidisciplinary Collaboration. JNCI Cancer Spectrum, 2022, 6, .	2.9	2
3	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
4	A Pathologist-Annotated Dataset for Validating Artificial Intelligence: A Project Description and Pilot Study. Journal of Pathology Informatics, 2021, 12, 45.	1.7	17
5	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
6	Pitfalls in assessing stromal tumor infiltrating lymphocytes (sTILs) in breast cancer. Npj Breast Cancer, 2020, 6, 17.	5.2	106
7	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
8	Validation of mitotic cell quantification via microscopy and multiple whole-slide scanners. Diagnostic Pathology, 2019, 14, 65.	2.0	23
9	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
10	Impact of prevalence and case distribution in lab-based diagnostic imaging studies. Journal of Medical Imaging, 2019, 6, 1.	1.5	8
11	Paired split-plot designs of multireader multicase studies. Journal of Medical Imaging, 2018, 5, 1.	1.5	11
12	Efficiency gain of paired split-plot designs in MRMC ROC studies. , 2018, , .		1
13	Registration accuracy between whole slide images and glass slides in eeDAP workflow. , 2018, , .		1
14	Impact of different study populations on reader behavior and performance metrics: initial results. Proceedings of SPIE, 2017, 10136, .	0.8	2
15	MRMC analysis of agreement studies. Proceedings of SPIE, 2016, 9787, .	0.8	0
16	Using ANOVA/random-effects variance estimates to compute a two-sample U -statistic of order (1,1) estimate of variance. Journal of Statistical Theory and Practice, 2016, 10, 87-99.	0.5	3
17	Uncertainty in the assessment of immunohistochemical staining with optical and digital microscopy: lessons from a reader study. , 2015, , .		1
18	Exact Confidence Intervals for Channelized Hotelling Observer Performance in Image Quality Studies. IEEE Transactions on Medical Imaging, 2015, 34, 453-464.	8.9	36

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19	Comparing two correlated C indices with right-censored survival outcome: a one-shot nonparametric approach. <i>Statistics in Medicine</i> , 2015, 34, 685-703.	1.6	263
20	Evaluating whole slide imaging: A working group opportunity. <i>Journal of Pathology Informatics</i> , 2015, 6, 4.	0.6	3
21	Evaluating whole slide imaging: A working group opportunity. <i>Journal of Pathology Informatics</i> , 2015, 6, 4.	1.7	5
22	Observer Performance in the Use of Digital and Optical Microscopy for the Interpretation of Tissue-Based Biomarkers. <i>Analytical Cellular Pathology</i> , 2014, 2014, 1-10.	1.4	28
23	Generalized Roe and Metz receiver operating characteristic model: analytic link between simulated decision scores and empirical AUC variances and covariances. <i>Journal of Medical Imaging</i> , 2014, 1, 031006.	1.5	17
24	Multireader multicase reader studies with binary agreement data: simulation, analysis, validation, and sizing. <i>Journal of Medical Imaging</i> , 2014, 1, 031011.	1.5	12
25	Evaluation environment for digital and analog pathology: a platform for validation studies. <i>Journal of Medical Imaging</i> , 2014, 1, 037501.	1.5	11
26	Computerized characterization of lung nodule subtlety using thoracic CT images. <i>Physics in Medicine and Biology</i> , 2014, 59, 897-910.	3.0	16
27	Comparative Statistical Properties of Expected Utility and Area Under the ROC Curve for Laboratory Studies of Observer Performance in Screening Mammography. <i>Academic Radiology</i> , 2014, 21, 481-490.	2.5	3
28	eeDAP: An evaluation environment for digital and analog pathology. <i>Proceedings of SPIE</i> , 2014, 9037, .	0.8	2
29	On the assessment of the added value of new predictive biomarkers. <i>BMC Medical Research Methodology</i> , 2013, 13, 98.	3.1	25
30	The equivalence of a human observer and an ideal observer in binary diagnostic tasks. <i>Proceedings of SPIE</i> , 2013, , .	0.8	6
31	Statistical Power Considerations for a Utility Endpoint in Observer Performance Studies. <i>Academic Radiology</i> , 2013, 20, 798-806.	2.5	11
32	Assessing color reproducibility of whole-slide imaging scanners. <i>Proceedings of SPIE</i> , 2013, , .	0.8	7
33	Statistical properties of a utility measure of observer performance compared to area under the ROC curve. <i>Proceedings of SPIE</i> , 2013, , .	0.8	3
34	Multi-reader ROC Studies with Split-plot Designs. <i>Academic Radiology</i> , 2012, 19, 1508-1517.	2.5	42
35	Uncertainty estimation with a finite dataset in the assessment of classification models. <i>Computational Statistics and Data Analysis</i> , 2012, 56, 1016-1027.	1.2	4
36	Classifier variability: Accounting for training and testing. <i>Pattern Recognition</i> , 2012, 45, 2661-2671.	8.1	16

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37	The Importance of ROC Data. Academic Radiology, 2011, 18, 257-258.	2.5	10
38	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
39	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
40	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
41	Training variability in the evaluation of automated classifiers. Proceedings of SPIE, 2010, , .	0.8	2
42	Three-Class ROC Analysis—Toward a General Decision Theoretic Solution. IEEE Transactions on Medical Imaging, 2010, 29, 206-215.	8.9	21
43	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
44	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
45	Effect of training-sample size and classification difficulty on the accuracy of genomic predictors. Breast Cancer Research, 2010, 12, R5.	5.0	169
46	Incorporating Human Contrast Sensitivity in Model Observers for Detection Tasks. IEEE Transactions on Medical Imaging, 2009, 28, 339-347.	8.9	33
47	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
48	Comparison of classifier performance estimators: a simulation study. Proceedings of SPIE, 2009, , .	0.8	1
49	Comparison of ROC methods for partially paired data. , 2009, , .		1
50	Reader studies for validation of CAD systems. Neural Networks, 2008, 21, 387-397.	5.9	26
51	Assessment of display temporal response using a computational observer. Journal of the Society for Information Display, 2008, 16, 21.	2.1	1
52	Image Browsing in Slow Medical Liquid Crystal Displays. Academic Radiology, 2008, 15, 370-382.	2.5	21
53	Comparing agreement measures. Proceedings of SPIE, 2008, , .	0.8	0
54	Singular value description of a digital radiographic detector: Theory and measurements. Medical Physics, 2008, 35, 4744-4756.	3.0	13

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55	Performance Studies for Validation of CAD Systems. Neural Networks (IJCNN), International Joint Conference on, 2007, , .	0.0	1
56	METHODS FOR MRMC ROC ANALYSIS AND COMPONENTS-OF-VARIANCE MODELING USING COLPOSCOPY IMAGES. , 2007, , .		0
57	A method to estimate the point response function of digital x-ray detectors from edge measurements. , 2007, , .		5
58	Effect of slow display on stack-mode reading of volumetric image datasets using an anthropomorphic observer. , 2007, , .		0
59	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
60	Pooling MRMC forced-choice data. , 2007, , .		0
61	A contrast-sensitive channelized-Hotelling observer to predict human performance in a detection task using lumpy backgrounds and Gaussian signals. , 2007, , .		2
62	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
63	Multireader multcase 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
64	Detectability Decreases With Off-Normal Viewing in Medical Liquid Crystal Displays. Academic Radiology, 2006, 13, 210-218.	2.5	11
65	One-Shot Estimate of MRMC Variance: AUC. Academic Radiology, 2006, 13, 353-362.	2.5	124
66	Human efficiency for detecting Gaussian signals in non-Gaussian distributed lumpy backgrounds using different display characteristics and scaling methods. , 2006, , .		1
67	A practical method for measuring the H matrix of digital x-ray and cone beam CT imaging systems. , 2006, 6142, 652.		8
68	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
69	Visual detection with non-Lambertian displays: model and human observer results. , 2005, , .		3
70	Influence of panel size and expert skill on truth panel performance when combining expert ratings. , 2005, 5749, 49.		2
71	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
72	Toward objective and quantitative evaluation of imaging systems using images of phantoms. Medical Physics, 2005, 33, 83-95.	3.0	39

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73	An energy- and depth-dependent model for x-ray imaging. Medical Physics, 2004, 31, 3132-3149.	3.0	23
74	Lubberts effect in columnar phosphors. Medical Physics, 2004, 31, 3122-3131.	3.0	55
75	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
76	Effect of viewing angle on visual detection in liquid crystal displays. , 2003, , .		10
77	Variance of the channelized-hotelling observer from a finite number of trainers and testers. , 2003, , .		16
78	<title>Assessment of lesion detectability of Monte Carlo modeling of digital radiography systems</title>. , 2002, , .		3
79	Megalopinakophobia: its symptoms and cures. , 2001, , .		32
80	<title>Signal detection in a lumpy background: effects of providing more information to the human than just raw data</title>. , 1999, , .		0
81	<title>Stabilized estimates of Hotelling-observer detection performance in patient-structured noise</title>. , 1998, , .		68
82	Three-Way Mixed Effect ANOVA to Estimate MRMC Limits of Agreement. Statistics in Biopharmaceutical Research, 0, , 1-10.	0.8	1
83	Single reader between-cases AUC estimator with nested data. Statistical Methods in Medical Research, 0, , 096228022211115.	1.5	0