Anant Madabhushi

List of Publications by Year
in descending order

477	22,727	13099	12272
papers	citations	68 h-index	133 g-index

486	486	486	19013
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Histopathological Image Analysis: A Review. IEEE Reviews in Biomedical Engineering, 2009, 2, 147-171.	18.0	1,511
2	Applications of machine learning in drug discovery and development. Nature Reviews Drug Discovery, 2019, 18, 463-477.	46.4	1,358
3	Deep learning for digital pathology image analysis: A comprehensive tutorial with selected use cases. Journal of Pathology Informatics, 2016, 7, 29.	1.7	850
4	Artificial intelligence in digital pathology â€" new tools for diagnosis and precision oncology. Nature Reviews Clinical Oncology, 2019, 16, 703-715.	27.6	807
5	Image analysis and machine learning in digital pathology: Challenges and opportunities. Medical Image Analysis, 2016, 33, 170-175.	11.6	670
6	Stacked Sparse Autoencoder (SSAE) for Nuclei Detection on Breast Cancer Histopathology Images. IEEE Transactions on Medical Imaging, 2016, 35, 119-130.	8.9	659
7	Evaluation of prostate segmentation algorithms for MRI: The PROMISE12 challenge. Medical Image Analysis, 2014, 18, 359-373.	11.6	469
8	Intratumoral and peritumoral radiomics for the pretreatment prediction of pathological complete response to neoadjuvant chemotherapy based on breast DCE-MRI. Breast Cancer Research, 2017, 19, 57.	5.0	408
9	A Deep Convolutional Neural Network for segmenting and classifying epithelial and stromal regions in histopathological images. Neurocomputing, 2016, 191, 214-223.	5.9	365
10	Radiomics and radiogenomics in lung cancer: A review for the clinician. Lung Cancer, 2018, 115, 34-41.	2.0	362
11	Accurate and reproducible invasive breast cancer detection in whole-slide images: A Deep Learning approach for quantifying tumor extent. Scientific Reports, 2017, 7, 46450.	3.3	360
12	Digital Imaging in Pathology: Whole-Slide Imaging and Beyond. Annual Review of Pathology: Mechanisms of Disease, 2013, 8, 331-359.	22.4	355
13	A Review of Deep Learning in Medical Imaging: Imaging Traits, Technology Trends, Case Studies With Progress Highlights, and Future Promises. Proceedings of the IEEE, 2021, 109, 820-838.	21.3	339
14	Assessment of algorithms for mitosis detection in breast cancer histopathology images. Medical Image Analysis, 2015, 20, 237-248.	11.6	338
15	Mitosis detection in breast cancer pathology images by combining handcrafted and convolutional neural network features. Journal of Medical Imaging, 2014, 1, 034003.	1.5	264
16	Combining low-, high-level and empirical domain knowledge for automated segmentation of ultrasonic breast lesions. IEEE Transactions on Medical Imaging, 2003, 22, 155-169.	8.9	248
17	Computerized Image-Based Detection and Grading of Lymphocytic Infiltration in HER2+ Breast Cancer Histopathology. IEEE Transactions on Biomedical Engineering, 2010, 57, 642-653.	4.2	229
18	Perinodular and Intranodular Radiomic Features on Lung CT Images Distinguish Adenocarcinomas from Granulomas. Radiology, 2019, 290, 783-792.	7.3	226

#	Article	IF	Citations
19	Automatic detection of invasive ductal carcinoma in whole slide images with convolutional neural networks. Proceedings of SPIE, 2014, , .	0.8	224
20	Predicting cancer outcomes with radiomics and artificial intelligence in radiology. Nature Reviews Clinical Oncology, 2022, 19, 132-146.	27.6	221
21	Radiomic features from the peritumoral brain parenchyma on treatment-naÃ¯ve multi-parametric MR imaging predict long versus short-term survival in glioblastoma multiforme: Preliminary findings. European Radiology, 2017, 27, 4188-4197.	4.5	210
22	A Boosted Bayesian Multiresolution Classifier for Prostate Cancer Detection From Digitized Needle Biopsies. IEEE Transactions on Biomedical Engineering, 2012, 59, 1205-1218.	4.2	209
23	A Deep Learning Architecture for Image Representation, Visual Interpretability and Automated Basal-Cell Carcinoma Cancer Detection. Lecture Notes in Computer Science, 2013, 16, 403-410.	1.3	209
24	Identification of a MicroRNA Panel for Clear-cell Kidney Cancer. Urology, 2010, 75, 835-841.	1.0	208
25	An Integrated Region-, Boundary-, Shape-Based Active Contour for Multiple Object Overlap Resolution in Histological Imagery. IEEE Transactions on Medical Imaging, 2012, 31, 1448-1460.	8.9	205
26	Association of Peritumoral Radiomics With Tumor Biology and Pathologic Response to Preoperative Targeted Therapy for HER2 (ERBB2)â€“Positive Breast Cancer. JAMA Network Open, 2019, 2, e192561.	5.9	196
27	Changes in CT Radiomic Features Associated with Lymphocyte Distribution Predict Overall Survival and Response to Immunotherapy in Nonâ€“Small Cell Lung Cancer. Cancer Immunology Research, 2020, 8, 108-119.	3.4	187
28	Automated gland and nuclei segmentation for grading of prostate and breast cancer histopathology. , 2008, , .		183
29	Expectationâ€“Maximization-Driven Geodesic Active Contour With Overlap Resolution (EMaGACOR): Application to Lymphocyte Segmentation on Breast Cancer Histopathology. IEEE Transactions on Biomedical Engineering, 2010, 57, 1676-1689.	4.2	171
30	Spatial Architecture and Arrangement of Tumor-Infiltrating Lymphocytes for Predicting Likelihood of Recurrence in Early-Stage Nonâ€“Small Cell Lung Cancer. Clinical Cancer Research, 2019, 25, 1526-1534.	7.0	168
31	HistoQC: An Open-Source Quality Control Tool for Digital Pathology Slides. JCO Clinical Cancer Informatics, 2019, 3, 1-7.	2.1	167
32	Digital pathology image analysis: opportunities and challenges. Imaging in Medicine, 2009, 1, 7-10.	0.0	165
33	Automated detection of prostatic adenocarcinoma from high-resolution ex vivo MRI. IEEE Transactions on Medical Imaging, 2005, 24, 1611-1625.	8.9	164
34	Stain Normalization using Sparse AutoEncoders (StaNoSA): Application to digital pathology. Computerized Medical Imaging and Graphics, 2017, 57, 50-61.	5.8	161
35	Digital pathology and computational image analysis in nephropathology. Nature Reviews Nephrology, 2020, 16, 669-685.	9.6	133
36	AUTOMATED GRADING OF PROSTATE CANCER USING ARCHITECTURAL AND TEXTURAL IMAGE FEATURES. , 2007, , .		128

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37	Automated grading of breast cancer histopathology using spectral clusteringwith textural and architectural image features. , 2008, , .		128
38	Computerized Image Analysis for Identifying Triple-Negative Breast Cancers and Differentiating Them from Other Molecular Subtypes of Breast Cancer on Dynamic Contrast-enhanced MR Images: A Feasibility Study. Radiology, 2014, 272, 91-99.	7.3	127
39	Emerging Themes in Image Informatics and Molecular Analysis for Digital Pathology. Annual Review of Biomedical Engineering, 2016, 18, 387-412.	12.3	117
40	New methods of MR image intensity standardization via generalized scale. Medical Physics, 2006, 33, 3426-3434.	3.0	116
41	Radiomic features for prostate cancer detection on MRI differ between the transition and peripheral zones: Preliminary findings from a multiâ€institutional study. Journal of Magnetic Resonance Imaging, 2017, 46, 184-193.	3.4	114
42	Radiogenomic analysis of hypoxia pathway is predictive of overall survival in Glioblastoma. Scientific Reports, 2018, 8, 7.	3.3	113
43	Central gland and peripheral zone prostate tumors have significantly different quantitative imaging signatures on 3 tesla endorectal, in vivo T2â€weighted MR imagery. Journal of Magnetic Resonance Imaging, 2012, 36, 213-224.	3.4	112
44	Multifeature Landmark-Free Active Appearance Models: Application to Prostate MRI Segmentation. IEEE Transactions on Medical Imaging, 2012, 31, 1638-1650.	8.9	110
45	High-throughput detection of prostate cancer in histological sections using probabilistic pairwise Markov models. Medical Image Analysis, 2010, 14, 617-629.	11.6	107
46	Radiomic features from pretreatment biparametric MRI predict prostate cancer biochemical recurrence: Preliminary findings. Journal of Magnetic Resonance Imaging, 2018, 48, 1626-1636.	3.4	107
47	Pitfalls in assessing stromal tumor infiltrating lymphocytes (sTILs) in breast cancer. Npj Breast Cancer, 2020, 6, 17.	5.2	106
48	Computer-aided prognosis: Predicting patient and disease outcome via quantitative fusion of multi-scale, multi-modal data. Computerized Medical Imaging and Graphics, 2011, 35, 506-514.	5.8	104
49	Textural Kinetics: A Novel Dynamic Contrast-Enhanced (DCE)-MRI Feature for Breast Lesion Classification. Journal of Digital Imaging, 2011, 24, 446-463.	2.9	104
50	Multi-Field-of-View Framework for Distinguishing Tumor Grade in ER+ Breast Cancer From Entire Histopathology Slides. IEEE Transactions on Biomedical Engineering, 2013, 60, 2089-2099.	4.2	104
51	Co-occurrence of Local Anisotropic Gradient Orientations (CoLlAGe): A new radiomics descriptor. Scientific Reports, 2016, 6, 37241.	3.3	104
52	Development and evaluation of deep learningâ€“based segmentation of histologic structures in the kidney cortex with multiple histologic stains. Kidney International, 2021, 99, 86-101.	5.2	103
53	Interplay between intensity standardization and inhomogeneity correction in MR image processing. IEEE Transactions on Medical Imaging, 2005, 24, 561-576.	8.9	100
54	Elastic registration of multimodal prostate MRI and histology via multiattribute combined mutual information. Medical Physics, 2011, 38, 2005-2018.	3.0	100

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55	High-throughput adaptive sampling for whole-slide histopathology image analysis (HASHI) via convolutional neural networks: Application to invasive breast cancer detection. PLoS ONE, 2018, 13, e0196828.	2.5	100
56	Nuclear shape and orientation features from H&E images predict survival in early-stage estrogen receptor-positive breast cancers. Laboratory Investigation, 2018, 98, 1438-1448.	3.7	99
57	Artificial Intelligence and Machine Learning in Arrhythmias and Cardiac Electrophysiology. Circulation: Arrhythmia and Electrophysiology, 2020, 13, e007952.	4.8	96
58	Computer-Extracted Texture Features to Distinguish Cerebral Radionecrosis from Recurrent Brain Tumors on Multiparametric MRI: A Feasibility Study. American Journal of Neuroradiology, 2016, 37, 2231-2236.	2.4	95
59	Radiomics Analysis on FLT-PET/MRI for Characterization of Early Treatment Response in Renal Cell Carcinoma: A Proof-of-Concept Study. Translational Oncology, 2016, 9, 155-162.	3.7	94
60	A deep-learning classifier identifies patients with clinical heart failure using whole-slide images of H&E tissue. PLoS ONE, 2018, 13, e0192726.	2.5	93
61	Investigating the Efficacy of Nonlinear Dimensionality Reduction Schemes in Classifying Gene and Protein Expression Studies. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2008, 5, 368-384.	3.0	91
62	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
63	Radiomic features on MRI enable risk categorization of prostate cancer patients on active surveillance: Preliminary findings. Journal of Magnetic Resonance Imaging, 2018, 48, 818-828.	3.4	88
64	Multi-kernel graph embedding for detection, Gleason grading of prostate cancer via MRI/MRS. Medical Image Analysis, 2013, 17, 219-235.	11.6	85
65	Prediction of recurrence in early stage non-small cell lung cancer using computer extracted nuclear features from digital H&E images. Scientific Reports, 2017, 7, 13543.	3.3	85
66	CT derived radiomic score for predicting the added benefit of adjuvant chemotherapy following surgery in stage I, II resectable non-small cell lung cancer: a retrospective multicohort study for outcome prediction. The Lancet Digital Health, 2020, 2, e116-e128.	12.3	85
67	Supervised Multi-View Canonical Correlation Analysis (sMVCCA): Integrating Histologic and Proteomic Features for Predicting Recurrent Prostate Cancer. IEEE Transactions on Medical Imaging, 2015, 34, 284-297.	8.9	82
68	Cascaded discrimination of normal, abnormal, and confounder classes in histopathology: Gleason grading of prostate cancer. BMC Bioinformatics, 2012, 13, 282.	2.6	81
69	Machine Learning Prediction of Response to Cardiac Resynchronization Therapy. Circulation: Arrhythmia and Electrophysiology, 2019, 12, e007316.	4.8	76
70	Harnessing non-destructive 3D pathology. Nature Biomedical Engineering, 2021, 5, 203-218.	22.5	74
71	A Quantitative Histomorphometric Classifier (QuHbIC) Identifies Aggressive Versus Indolent p16-Positive Oropharyngeal Squamous Cell Carcinoma. American Journal of Surgical Pathology, 2014, 38, 128-137.	3.7	73
72	Combination of Peri- and Intratumoral Radiomic Features on Baseline CT Scans Predicts Response to Chemotherapy in Lung Adenocarcinoma. Radiology: Artificial Intelligence, 2019, 1, 180012.	5.8	73

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73	Automated Tubule Nuclei Quantification and Correlation with Oncotype DX risk categories in ER+ Breast Cancer Whole Slide Images. Scientific Reports, 2016, 6, 32706.	3.3	72
74	Quality control stress test for deep learning-based diagnostic model in digital pathology. Modern Pathology, 2021, 34, 2098-2108.	5.5	72
75	NCI Workshop Report: Clinical and Computational Requirements for Correlating Imaging Phenotypes with Genomics Signatures. Translational Oncology, 2014, 7, 556-569.	3.7	69
76	Radiomics based targeted radiotherapy planning (Rad-TRaP): a computational framework for prostate cancer treatment planning with MRI. Radiation Oncology, 2016, 11, 148.	2.7	69
77	Quantitative nuclear histomorphometry predicts oncotype DX risk categories for early stage ER+ breast cancer. BMC Cancer, 2018, 18, 610.	2.6	67
78	Radiogenomic-Based Survival Risk Stratification of Tumor Habitat on Gd-T1w MRI Is Associated with Biological Processes in Glioblastoma. Clinical Cancer Research, 2020, 26, 1866-1876.	7.0	67
79	Novel, non-invasive imaging approach to identify patients with advanced non-small cell lung cancer at risk of hyperprogressive disease with immune checkpoint blockade. , 2020, 8, e001343.		64
80	A Boosting Cascade for Automated Detection of Prostate Cancer from Digitized Histology. Lecture Notes in Computer Science, 2006, 9, 504-511.	1.3	63
81	Computer aided diagnostic tools aim to empower rather than replace pathologists: Lessons learned from computational chess. Journal of Pathology Informatics, 2011, 2, 25.	1.7	62
82	Determining histology-MRI slice correspondences for defining MRI-based disease signatures of prostate cancer. Computerized Medical Imaging and Graphics, 2011, 35, 568-578.	5.8	61
83	Shape Features of the Lesion Habitat to Differentiate Brain Tumor Progression from Pseudoprogression on Routine Multiparametric MRI: A Multisite Study. American Journal of Neuroradiology, 2018, 39, 2187-2193.	2.4	61
84	An active learning based classification strategy for the minority class problem: application to histopathology annotation. BMC Bioinformatics, 2011, 12, 424.	2.6	60
85	Multimodal wavelet embedding representation for data combination (MaWERiC): integrating magnetic resonance imaging and spectroscopy for prostate cancer detection. NMR in Biomedicine, 2012, 25, 607-619.	2.8	60
86	An oral cavity squamous cell carcinoma quantitative histomorphometric-based image classifier of nuclear morphology can risk stratify patients for disease-specific survival. Modern Pathology, 2017, 30, 1655-1665.	5.5	60
87	An integrated nomogram combining deep learning, Prostate Imagingâ€“Reporting and Data System (PI-RADS) scoring, and clinical variables for identification of clinically significant prostate cancer on biparametric MRI: a retrospective multicentre study. The Lancet Digital Health, 2021, 3, e445-e454.	12.3	55
88	Generalized scale: Theory, algorithms, and application to image inhomogeneity correction. Computer Vision and Image Understanding, 2006, 101, 100-121.	4.7	54
89	Sparse Non-negative Matrix Factorization (SNMF) based color unmixing for breast histopathological image analysis. Computerized Medical Imaging and Graphics, 2015, 46, 20-29.	5.8	54
90	Evaluating stability of histomorphometric features across scanner and staining variations: prostate cancer diagnosis from whole slide images. Journal of Medical Imaging, 2016, 3, 047502.	1.5	54

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91	A deep learning based strategy for identifying and associating mitotic activity with gene expression derived risk categories in estrogen receptor positive breast cancers. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2017, 91, 566-573.	1.5	54
92	Co-Occurring Gland Angularity in Localized Subgraphs: Predicting Biochemical Recurrence in Intermediate-Risk Prostate Cancer Patients. PLoS ONE, 2014, 9, e97954.	2.5	53
93	Novel Quantitative Imaging for Predicting Response to Therapy: Techniques and Clinical Applications. American Society of Clinical Oncology Educational Book / ASCO American Society of Clinical Oncology Meeting, 2018, 38, 1008-1018.	3.8	52
94	Predicting pathologic response to neoadjuvant chemoradiation in resectable stage III non-small cell lung cancer patients using computed tomography radiomic features. Lung Cancer, 2019, 135, 1-9.	2.0	51
95	An Image Analysis Resource for Cancer Research: PIIPâ€"Pathology Image Informatics Platform for Visualization, Analysis, and Management. Cancer Research, 2017, 77, e83-e86.	0.9	50
96	Radiomic Features of Primary Rectal Cancers on Baseline T₂â€Weighted MRI Are Associated With Pathologic Complete Response to Neoadjuvant Chemoradiation: A Multisite Study. Journal of Magnetic Resonance Imaging, 2020, 52, 1531-1541.	3.4	50
97	A Radio-genomics Approach for Identifying High Risk Estrogen Receptor-positive Breast Cancers on DCE-MRI: Preliminary Results in Predicting OncotypeDX Risk Scores. Scientific Reports, 2016, 6, 21394.	3.3	49
98	Quantitative Image Analysis of Human Epidermal Growth Factor Receptor 2 Immunohistochemistry for Breast Cancer: Guideline From the College of American Pathologists. Archives of Pathology and Laboratory Medicine, 2019, 143, 1180-1195.	2.5	49
99	Combination of Peri-Tumoral and Intra-Tumoral Radiomic Features on Bi-Parametric MRI Accurately Stratifies Prostate Cancer Risk: A Multi-Site Study. Cancers, 2020, 12, 2200.	3.7	49
100	Role of tumor infiltrating lymphocytes and spatial immune heterogeneity in sensitivity to PD-1 axis blockers in non-small cell lung cancer. , 2022, 10, e004440.		49
101	A high-throughput active contour scheme for segmentation of histopathological imagery. Medical Image Analysis, 2011, 15, 851-862.	11.6	48
102	A hierarchical spectral clustering and nonlinear dimensionality reduction scheme for detection of prostate cancer from magnetic resonance spectroscopy (MRS). Medical Physics, 2009, 36, 3927-3939.	3.0	46
103	Nuclear Shape and Architecture in Benign Fields Predict Biochemical Recurrence in Prostate Cancer Patients Following Radical Prostatectomy: Preliminary Findings. European Urology Focus, 2017, 3, 457-466.	3.1	46
104	Accurate Prostate Volume Estimation Using Multifeature Active Shape Models on T2-weighted MRI. Academic Radiology, 2011, 18, 745-754.	2.5	44
105	Identifying the morphologic basis for radiomic features in distinguishing different Gleason grades of prostate cancer on MRI: Preliminary findings. PLoS ONE, 2018, 13, e0200730.	2.5	44
106	Computer-extracted Features Can Distinguish Noncancerous Confounding Disease from Prostatic Adenocarcinoma at Multiparametric MR Imaging. Radiology, 2016, 278, 135-145.	7.3	43
107	Prostate Cancer Risk Stratification via Nondestructive 3D Pathology with Deep Learningâ€"Assisted Gland Analysis. Cancer Research, 2022, 82, 334-345.	0.9	42
108	A magnetic resonance spectroscopy driven initialization scheme for active shape model based prostate segmentation. Medical Image Analysis, 2011, 15, 214-225.	11.6	41

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109	Multi-field-of-view strategy for image-based outcome prediction of multi-parametric estrogen receptor-positive breast cancer histopathology: Comparison to Oncotype DX. Journal of Pathology Informatics, 2012, 2, 1.	1.7	40
110	Explicit shape descriptors: Novel morphologic features for histopathology classification. Medical Image Analysis, 2013, 17, 997-1009.	11.6	40
111	A prognostic model for overall survival of patients with early-stage non-small cell lung cancer: a multicentre, retrospective study. The Lancet Digital Health, 2020, 2, e594-e606.	12.3	38
112	An integrated segmentation and shape-based classification scheme for distinguishing adenocarcinomas from granulomas on lung CT. Medical Physics, 2017, 44, 3556-3569.	3.0	37
113	A resolution adaptive deep hierarchical (RADHicaL) learning scheme applied to nuclear segmentation of digital pathology images. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2018, 6, 270-276.	1.9	37
114	Incorporating domain knowledge for tubule detection in breast histopathology using O'Callaghan neighborhoods. Proceedings of SPIE, 2011, , .	0.8	36
115	Computationally Derived Image Signature of Stromal Morphology Is Prognostic of Prostate Cancer Recurrence Following Prostatectomy in African American Patients. Clinical Cancer Research, 2020, 26, 1915-1923.	7.0	36
116	An automated computational image analysis pipeline for histological grading of cardiac allograft rejection. European Heart Journal, 2021, 42, 2356-2369.	2.2	36
117	Cell Orientation Entropy (COrE): Predicting Biochemical Recurrence from Prostate Cancer Tissue Microarrays. Lecture Notes in Computer Science, 2013, 16, 396-403.	1.3	36
118	Supervised Regularized Canonical Correlation Analysis: integrating histologic and proteomic measurements for predicting biochemical recurrence following prostate surgery. BMC Bioinformatics, 2011, 12, 483.	2.6	34
119	HistoStitcherÂ©: An interactive program for accurate and rapid reconstruction of digitized whole histological sections from tissue fragments. Computerized Medical Imaging and Graphics, 2011, 35, 557-567.	5.8	34
120	Cell cluster graph for prediction of biochemical recurrence in prostate cancer patients from tissue microarrays. Proceedings of SPIE, 2013, , .	0.8	34
121	Comparing radiomic classifiers and classifier ensembles for detection of peripheral zone prostate tumors on T2-weighted MRI: a multi-site study. BMC Medical Imaging, 2019, 19, 22.	2.7	34
122	Feature-driven local cell graph (FLocK): New computational pathology-based descriptors for prognosis of lung cancer and HPV status of oropharyngeal cancers. Medical Image Analysis, 2021, 68, 101903.	11.6	34
123	Simultaneous segmentation of prostatic zones using Active Appearance Models with multiple coupled levelsets. Computer Vision and Image Understanding, 2013, 117, 1051-1060.	4.7	33
124	Towards Improved Cancer Diagnosis and Prognosis Using Analysis of Gene Expression Data and Computer Aided Imaging. Experimental Biology and Medicine, 2009, 234, 860-879.	2.4	32
125	A novel imaging based Nomogram for predicting post-surgical biochemical recurrence and adverse pathology of prostate cancer from pre-operative bi-parametric MRI. EBioMedicine, 2021, 63, 103163.	6.1	32
126	A deep learning classifier for prediction of pathological complete response to neoadjuvant chemotherapy from baseline breast DCE-MRI. , 2018, , .		32

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127	Integrated diagnostics: a conceptual framework with examples. Clinical Chemistry and Laboratory Medicine, 2010, 48, 989-998.	2.3	31
128	Statistical shape model for manifold regularization: Gleason grading of prostate histology. Computer Vision and Image Understanding, 2013, 117, 1138-1146.	4.7	31
129	EM-based segmentation-driven color standardization of digitized histopathology. Proceedings of SPIE, 2013, , .	0.8	31
130	Cascaded ensemble of convolutional neural networks and handcrafted features for mitosis detection. Proceedings of SPIE, 2014, , .	0.8	31
131	The state of the art for artificial intelligence in lung digital pathology. Journal of Pathology, 2022, 257, 413-429.	4.5	31
132	Spatial interplay patterns of cancer nuclei and tumor-infiltrating lymphocytes (TILs) predict clinical benefit for immune checkpoint inhibitors. Science Advances, 2022, 8, .	10.3	31
133	Decision Support System for Detection of Diabetic Retinopathy Using Smartphones. , 2013, , .		30
134	Multisite evaluation of radiomic feature reproducibility and discriminability for identifying peripheral zone prostate tumors on MRI. Journal of Medical Imaging, 2019, 6, 1.	1.5	30
135	High-Throughput Biomarker Segmentation on Ovarian Cancer Tissue Microarrays via Hierarchical Normalized Cuts. IEEE Transactions on Biomedical Engineering, 2012, 59, 1240-1252.	4.2	29
136	Technical Note: MRQy â€" An openâ€source tool for quality control of MR imaging data. Medical Physics, 2020, 47, 6029-6038.	3.0	29
137	Machine Learning of 12-Lead QRS Waveforms to Identify Cardiac Resynchronization Therapy Patients With Differential Outcomes. Circulation: Arrhythmia and Electrophysiology, 2020, 13, e008210.	4.8	29
138	Stable and discriminating radiomic predictor of recurrence in early stage non-small cell lung cancer: Multi-site study. Lung Cancer, 2020, 142, 90-97.	2.0	29
139	Artificial intelligence applied to breast pathology. Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin, 2022, 480, 191-209.	2.8	29
140	Detecting Prostatic Adenocarcinoma From Digitized Histology Using a Multi-Scale Hierarchical Classification Approach. , 2006, 2006, 4759-62.		28
141	Selective invocation of shape priors for deformable segmentation and morphologic classification of prostate cancer tissue microarrays. Computerized Medical Imaging and Graphics, 2015, 41, 3-13.	5.8	28
142	Integrating structural and functional imaging for computer assisted detection of prostate cancer on multi-protocol in vivo 3 Tesla MRI. Proceedings of SPIE, 2009, 7260, 72603I.	0.8	27
143	Concurrent segmentation of the prostate on MRI and CT via linked statistical shape models for radiotherapy planning. Medical Physics, 2012, 39, 2214-2228.	3.0	27
144	Novel PCA-VIP scheme for ranking MRI protocols and identifying computer-extracted MRI measurements associated with central gland and peripheral zone prostate tumors. Journal of Magnetic Resonance Imaging, 2015, 41, 1383-1393.	3.4	27

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145	Identifying in vivo DCE MRI markers associated with microvessel architecture and gleason grades of prostate cancer. Journal of Magnetic Resonance Imaging, 2016, 43, 149-158.	3.4	27
146	Stable and discriminating features are predictive of cancer presence and Gleason grade in radical prostatectomy specimens: a multi-site study. Scientific Reports, 2018, 8, 14918.	3.3	27
147	CT-Radiomic Approach to Predict G1/2 Nonfunctional Pancreatic Neuroendocrine Tumor. Academic Radiology, 2020, 27, e272-e281.	2.5	27
148	Machine Learningâ€“Derived Fractal Features of Shape and Texture of the Left Atrium and Pulmonary Veins From Cardiac Computed Tomography Scans Are Associated With Risk of Recurrence of Atrial Fibrillation Postablation. Circulation: Arrhythmia and Electrophysiology, 2021, 14, e009265.	4.8	27
149	A Comprehensive Segmentation, Registration, and Cancer Detection Scheme on 3 Tesla In Vivo Prostate DCE-MRI. Lecture Notes in Computer Science, 2008, 11, 662-669.	1.3	26
150	Collagen fiber orientation disorder from H&E images is prognostic for early stage breast cancer: clinical trial validation. Npj Breast Cancer, 2021, 7, 104.	5.2	26
151	Tumor Habitatâ€“derived Radiomic Features at Pretreatment MRI That Are Prognostic for Progression-free Survival in Glioblastoma Are Associated with Key Morphologic Attributes at Histopathologic Examination: A Feasibility Study. Radiology: Artificial Intelligence, 2020, 2, e190168.	5.8	26
152	Novel imaging biomarkers predict outcomes in stage III unresectable non-small cell lung cancer treated with chemoradiation and durvalumab. , 2022, 10, e003778.		26
153	Class-specific weighting for Markov random field estimation: Application to medical image segmentation. Medical Image Analysis, 2012, 16, 1477-1489.	11.6	25
154	Multi-Pass Adaptive Voting for Nuclei Detection in Histopathological Images. Scientific Reports, 2016, 6, 33985.	3.3	25
155	Assessment of a computerized quantitative quality control tool for whole slide images of kidney biopsies. Journal of Pathology, 2021, 253, 268-278.	4.5	25
156	A weighted mean shift, normalized cuts initialized color gradient based geodesic active contour model: applications to histopathology image segmentation. Proceedings of SPIE, 2010, , .	0.8	24
157	Feature Importance in Nonlinear Embeddings (FINE): Applications in Digital Pathology. IEEE Transactions on Medical Imaging, 2016, 35, 76-88.	8.9	24
158	Radiomic Texture and Shape Descriptors of the Rectal Environment on Post-Chemoradiation T2-Weighted MRI are Associated with Pathologic Tumor Stage Regression in Rectal Cancers: A Retrospective, Multi-Institution Study. Cancers, 2020, 12, 2027.	3.7	24
159	Sexually dimorphic radiogenomic models identify distinct imaging and biological pathways that are prognostic of overall survival in glioblastoma. Neuro-Oncology, 2021, 23, 251-263.	1.2	24
160	T1 and T2 MR fingerprinting measurements of prostate cancer and prostatitis correlate with deep learningâ€“derived estimates of epithelium, lumen, and stromal composition on corresponding whole mount histopathology. European Radiology, 2021, 31, 1336-1346.	4.5	24
161	Computerized tumor multinucleation index (MuNI) is prognostic in p16+ oropharyngeal carcinoma. Journal of Clinical Investigation, 2021, 131, .	8.2	24
162	Quantitative vessel tortuosity: A potential CT imaging biomarker for distinguishing lung granulomas from adenocarcinomas. Scientific Reports, 2018, 8, 15290.	3.3	23

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163	Correlation between MRI phenotypes and a genomic classifier of prostate cancer: preliminary findings. European Radiology, 2019, 29, 4861-4870.	4.5	23
164	Repeatability of radiomics and machine learning for DWI: Shortâ€term repeatability study of 112 patients with prostate cancer. Magnetic Resonance in Medicine, 2020, 83, 2293-2309.	3.0	23
165	Adaptive Energy Selective Active Contour with Shape Priors for Nuclear Segmentation and Gleason Grading of Prostate Cancer. Lecture Notes in Computer Science, 2011, 14, 661-669.	1.3	23
166	An Imaging Biomarker of Tumor-Infiltrating Lymphocytes to Risk-Stratify Patients With HPV-Associated Oropharyngeal Cancer. Journal of the National Cancer Institute, 2022, 114, 609-617.	6.3	23
167	Comparing MR image intensity standardization against tissue characterizability of magnetization transfer ratio imaging. Journal of Magnetic Resonance Imaging, 2006, 24, 667-675.	3.4	22
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