

Anant Madabhushi

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421
papers

14,035
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59
h-index

109
g-index

484
ext. papers

18,189
ext. citations

5.4
avg, IF

7.03
L-index

#	Paper	IF	Citations
4 ²¹	Histopathological image analysis: a review. <i>IEEE Reviews in Biomedical Engineering</i> , 2009 , 2, 147-71	6.4	1061
4 ²⁰	Applications of machine learning in drug discovery and development. <i>Nature Reviews Drug Discovery</i> , 2019 , 18, 463-477	64.1	558
4 ¹⁹	Deep learning for digital pathology image analysis: A comprehensive tutorial with selected use cases. <i>Journal of Pathology Informatics</i> , 2016 , 7, 29	4.4	556
4 ¹⁸	Stacked Sparse Autoencoder (SSAE) for Nuclei Detection on Breast Cancer Histopathology Images. <i>IEEE Transactions on Medical Imaging</i> , 2016 , 35, 119-30	11.7	473
4 ¹⁷	Artificial intelligence in digital pathology - new tools for diagnosis and precision oncology. <i>Nature Reviews Clinical Oncology</i> , 2019 , 16, 703-715	19.4	310
4 ¹⁶	Evaluation of prostate segmentation algorithms for MRI: the PROMISE12 challenge. <i>Medical Image Analysis</i> , 2014 , 18, 359-73	15.4	294
4 ¹⁵	A Deep Convolutional Neural Network for segmenting and classifying epithelial and stromal regions in histopathological images. <i>Neurocomputing</i> , 2016 , 191, 214-223	5.4	279
4 ¹⁴	Digital imaging in pathology: whole-slide imaging and beyond. <i>Annual Review of Pathology: Mechanisms of Disease</i> , 2013 , 8, 331-59	34	273
4 ¹³	Intratumoral and peritumoral radiomics for the pretreatment prediction of pathological complete response to neoadjuvant chemotherapy based on breast DCE-MRI. <i>Breast Cancer Research</i> , 2017 , 19, 57	8.3	246
4 ¹²	Assessment of algorithms for mitosis detection in breast cancer histopathology images. <i>Medical Image Analysis</i> , 2015 , 20, 237-48	15.4	245
4 ¹¹	Accurate and reproducible invasive breast cancer detection in whole-slide images: A Deep Learning approach for quantifying tumor extent. <i>Scientific Reports</i> , 2017 , 7, 46450	4.9	233
4 ¹⁰	Radiomics and radiogenomics in lung cancer: A review for the clinician. <i>Lung Cancer</i> , 2018 , 115, 34-41	5.9	221
4 ⁰⁹	Identification of a microRNA panel for clear-cell kidney cancer. <i>Urology</i> , 2010 , 75, 835-41	1.6	198
4 ⁰⁸	Combining low-, high-level and empirical domain knowledge for automated segmentation of ultrasonic breast lesions. <i>IEEE Transactions on Medical Imaging</i> , 2003 , 22, 155-69	11.7	197
4 ⁰⁷	Mitosis detection in breast cancer pathology images by combining handcrafted and convolutional neural network features. <i>Journal of Medical Imaging</i> , 2014 , 1, 034003	2.6	193
4 ⁰⁶	Computerized image-based detection and grading of lymphocytic infiltration in HER2+ breast cancer histopathology. <i>IEEE Transactions on Biomedical Engineering</i> , 2010 , 57, 642-53	5	184
4 ⁰⁵	A boosted Bayesian multiresolution classifier for prostate cancer detection from digitized needle biopsies. <i>IEEE Transactions on Biomedical Engineering</i> , 2012 , 59, 1205-18	5	169

404	A deep learning architecture for image representation, visual interpretability and automated basal-cell carcinoma cancer detection. <i>Lecture Notes in Computer Science</i> , 2013 , 16, 403-10	0.9	155
403	An integrated region-, boundary-, shape-based active contour for multiple object overlap resolution in histological imagery. <i>IEEE Transactions on Medical Imaging</i> , 2012 , 31, 1448-60	11.7	152
402	Radiomic features from the peritumoral brain parenchyma on treatment-naïve multi-parametric MR imaging predict long versus short-term survival in glioblastoma multiforme: Preliminary findings. <i>European Radiology</i> , 2017 , 27, 4188-4197	8	147
401	Expectation-maximization-driven geodesic active contour with overlap resolution (EMaGACOR): application to lymphocyte segmentation on breast cancer histopathology. <i>IEEE Transactions on Biomedical Engineering</i> , 2010 , 57, 1676-89	5	139
400	Automated gland and nuclei segmentation for grading of prostate and breast cancer histopathology 2008 ,		138
399	Automatic detection of invasive ductal carcinoma in whole slide images with convolutional neural networks 2014 ,		136
398	Automated detection of prostatic adenocarcinoma from high-resolution ex vivo MRI. <i>IEEE Transactions on Medical Imaging</i> , 2005 , 24, 1611-25	11.7	133
397	Digital pathology image analysis: opportunities and challenges. <i>Imaging in Medicine</i> , 2009 , 1, 7-10	1	126
396	Perinodular and Intranodular Radiomic Features on Lung CT Images Distinguish Adenocarcinomas from Granulomas. <i>Radiology</i> , 2019 , 290, 783-792	20.5	126
395	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. <i>Radiology</i> , 2014 , 272, 91-9	20.5	107
394	Stain Normalization using Sparse AutoEncoders (StaNoSA): Application to digital pathology. <i>Computerized Medical Imaging and Graphics</i> , 2017 , 57, 50-61	7.6	101
393	High-throughput detection of prostate cancer in histological sections using probabilistic pairwise Markov models. <i>Medical Image Analysis</i> , 2010 , 14, 617-29	15.4	99
392	Association of Peritumoral Radiomics With Tumor Biology and Pathologic Response to Preoperative Targeted Therapy for HER2 (ERBB2)-Positive Breast Cancer. <i>JAMA Network Open</i> , 2019 , 2, e192561	10.4	98
391	Central gland and peripheral zone prostate tumors have significantly different quantitative imaging signatures on 3 Tesla endorectal, in vivo T2-weighted MR imagery. <i>Journal of Magnetic Resonance Imaging</i> , 2012 , 36, 213-24	5.6	96
390	Multifeature landmark-free active appearance models: application to prostate MRI segmentation. <i>IEEE Transactions on Medical Imaging</i> , 2012 , 31, 1638-50	11.7	95
389	New methods of MR image intensity standardization via generalized scale. <i>Medical Physics</i> , 2006 , 33, 3426-34	4.4	94
388	AUTOMATED GRADING OF PROSTATE CANCER USING ARCHITECTURAL AND TEXTURAL IMAGE FEATURES 2007 ,		93
387	Textural kinetics: a novel dynamic contrast-enhanced (DCE)-MRI feature for breast lesion classification. <i>Journal of Digital Imaging</i> , 2011 , 24, 446-63	5.3	89

386	Spatial Architecture and Arrangement of Tumor-Infiltrating Lymphocytes for Predicting Likelihood of Recurrence in Early-Stage Non-Small Cell Lung Cancer. <i>Clinical Cancer Research</i> , 2019 , 25, 1526-1534	12.9	87
385	Elastic registration of multimodal prostate MRI and histology via multiattribute combined mutual information. <i>Medical Physics</i> , 2011 , 38, 2005-18	4.4	85
384	Computer-aided prognosis: predicting patient and disease outcome via quantitative fusion of multi-scale, multi-modal data. <i>Computerized Medical Imaging and Graphics</i> , 2011 , 35, 506-14	7.6	85
383	Automated grading of breast cancer histopathology using spectral clustering with textural and architectural image features 2008 ,		85
382	A Review of Deep Learning in Medical Imaging: Imaging Traits, Technology Trends, Case Studies With Progress Highlights, and Future Promises. <i>Proceedings of the IEEE</i> , 2021 , 109, 820-838	14.3	83
381	Radiomic features for prostate cancer detection on MRI differ between the transition and peripheral zones: Preliminary findings from a multi-institutional study. <i>Journal of Magnetic Resonance Imaging</i> , 2017 , 46, 184-193	5.6	82
380	Emerging Themes in Image Informatics and Molecular Analysis for Digital Pathology. <i>Annual Review of Biomedical Engineering</i> , 2016 , 18, 387-412	12	81
379	Interplay between intensity standardization and inhomogeneity correction in MR image processing. <i>IEEE Transactions on Medical Imaging</i> , 2005 , 24, 561-76	11.7	81
378	HistoQC: An Open-Source Quality Control Tool for Digital Pathology Slides. <i>JCO Clinical Cancer Informatics</i> , 2019 , 3, 1-7	5.2	76
377	Multi-field-of-view framework for distinguishing tumor grade in ER+ breast cancer from entire histopathology slides. <i>IEEE Transactions on Biomedical Engineering</i> , 2013 , 60, 2089-99	5	75
376	Investigating the efficacy of nonlinear dimensionality reduction schemes in classifying gene and protein expression studies. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2008 , 5, 368-84	3	75
375	Radiogenomic analysis of hypoxia pathway is predictive of overall survival in Glioblastoma. <i>Scientific Reports</i> , 2018 , 8, 7	4.9	74
374	Multi-kernel graph embedding for detection, Gleason grading of prostate cancer via MRI/MRS. <i>Medical Image Analysis</i> , 2013 , 17, 219-35	15.4	73
373	Changes in CT Radiomic Features Associated with Lymphocyte Distribution Predict Overall Survival and Response to Immunotherapy in Non-Small Cell Lung Cancer. <i>Cancer Immunology Research</i> , 2020 , 8, 108-119	12.5	72
372	Radiomics Analysis on FLT-PET/MRI for Characterization of Early Treatment Response in Renal Cell Carcinoma: A Proof-of-Concept Study. <i>Translational Oncology</i> , 2016 , 9, 155-162	4.9	71
371	Co-occurrence of Local Anisotropic Gradient Orientations (CoLLAGE): A new radiomics descriptor. <i>Scientific Reports</i> , 2016 , 6, 37241	4.9	70
370	Computer-Extracted Texture Features to Distinguish Cerebral Radionecrosis from Recurrent Brain Tumors on Multiparametric MRI: A Feasibility Study. <i>American Journal of Neuroradiology</i> , 2016 , 37, 2231-2236	4.1	70
369	High-throughput adaptive sampling for whole-slide histopathology image analysis (HASHI) via convolutional neural networks: Application to invasive breast cancer detection. <i>PLoS ONE</i> , 2018 , 13, e0196828	3.7	68

368	Radiomic features from pretreatment biparametric MRI predict prostate cancer biochemical recurrence: Preliminary findings. <i>Journal of Magnetic Resonance Imaging</i> , 2018 , 48, 1626-1636	5.6	65
367	Cascaded discrimination of normal, abnormal, and confounder classes in histopathology: Gleason grading of prostate cancer. <i>BMC Bioinformatics</i> , 2012 , 13, 282	3.6	65
366	A deep-learning classifier identifies patients with clinical heart failure using whole-slide images of H&E tissue. <i>PLoS ONE</i> , 2018 , 13, e0192726	3.7	63
365	Supervised multi-view canonical correlation analysis (sMVCCA): integrating histologic and proteomic features for predicting recurrent prostate cancer. <i>IEEE Transactions on Medical Imaging</i> , 2015 , 34, 284-97	11.7	61
364	NCI Workshop Report: Clinical and Computational Requirements for Correlating Imaging Phenotypes with Genomics Signatures. <i>Translational Oncology</i> , 2014 , 7, 556-69	4.9	60
363	A quantitative histomorphometric classifier (QuHbIC) identifies aggressive versus indolent p16-positive oropharyngeal squamous cell carcinoma. <i>American Journal of Surgical Pathology</i> , 2014 , 38, 128-37	6.7	59
362	Radiomic features on MRI enable risk categorization of prostate cancer patients on active surveillance: Preliminary findings. <i>Journal of Magnetic Resonance Imaging</i> , 2018 , 48, 818	5.6	56
361	Pitfalls in assessing stromal tumor infiltrating lymphocytes (sTILs) in breast cancer. <i>Npj Breast Cancer</i> , 2020 , 6, 17	7.8	54
360	Prediction of recurrence in early stage non-small cell lung cancer using computer extracted nuclear features from digital H&E images. <i>Scientific Reports</i> , 2017 , 7, 13543	4.9	53
359	Nuclear shape and orientation features from H&E images predict survival in early-stage estrogen receptor-positive breast cancers. <i>Laboratory Investigation</i> , 2018 , 98, 1438-1448	5.9	52
358	Radiomics based targeted radiotherapy planning (Rad-TRaP): a computational framework for prostate cancer treatment planning with MRI. <i>Radiation Oncology</i> , 2016 , 11, 148	4.2	50
357	Multimodal wavelet embedding representation for data combination (MaWERiC): integrating magnetic resonance imaging and spectroscopy for prostate cancer detection. <i>NMR in Biomedicine</i> , 2012 , 25, 607-19	4.4	50
356	Report on computational assessment of Tumor Infiltrating Lymphocytes from the International Immuno-Oncology Biomarker Working Group. <i>Npj Breast Cancer</i> , 2020 , 6, 16	7.8	47
355	Determining histology-MRI slice correspondences for defining MRI-based disease signatures of prostate cancer. <i>Computerized Medical Imaging and Graphics</i> , 2011 , 35, 568-78	7.6	47
354	An active learning based classification strategy for the minority class problem: application to histopathology annotation. <i>BMC Bioinformatics</i> , 2011 , 12, 424	3.6	47
353	Computer aided diagnostic tools aim to empower rather than replace pathologists: Lessons learned from computational chess. <i>Journal of Pathology Informatics</i> , 2011 , 2, 25	4.4	46
352	A boosting cascade for automated detection of prostate cancer from digitized histology. <i>Lecture Notes in Computer Science</i> , 2006 , 9, 504-11	0.9	46
351	Evaluating stability of histomorphometric features across scanner and staining variations: prostate cancer diagnosis from whole slide images. <i>Journal of Medical Imaging</i> , 2016 , 3, 047502	2.6	44

350	Digital pathology and computational image analysis in nephropathology. <i>Nature Reviews Nephrology</i> , 2020 , 16, 669-685	14.9	44
349	Accurate prostate volume estimation using multifeature active shape models on T2-weighted MRI. <i>Academic Radiology</i> , 2011 , 18, 745-54	4.3	43
348	Combination of Peri- and Intratumoral Radiomic Features on Baseline CT Scans Predicts Response to Chemotherapy in Lung Adenocarcinoma. <i>Radiology: Artificial Intelligence</i> , 2019 , 1, e180012	8.7	42
347	Machine Learning Prediction of Response to Cardiac Resynchronization Therapy: Improvement Versus Current Guidelines. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2019 , 12, e007316	6.4	41
346	Sparse Non-negative Matrix Factorization (SNMF) based color unmixing for breast histopathological image analysis. <i>Computerized Medical Imaging and Graphics</i> , 2015 , 46 Pt 1, 20-29	7.6	41
345	Co-occurring gland angularity in localized subgraphs: predicting biochemical recurrence in intermediate-risk prostate cancer patients. <i>PLoS ONE</i> , 2014 , 9, e97954	3.7	40
344	Automated Tubule Nuclei Quantification and Correlation with Oncotype DX risk categories in ER+ Breast Cancer Whole Slide Images. <i>Scientific Reports</i> , 2016 , 6, 32706	4.9	40
343	A hierarchical spectral clustering and nonlinear dimensionality reduction scheme for detection of prostate cancer from magnetic resonance spectroscopy (MRS). <i>Medical Physics</i> , 2009 , 36, 3927-39	4.4	39
342	A deep learning based strategy for identifying and associating mitotic activity with gene expression derived risk categories in estrogen receptor positive breast cancers. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2017 , 91, 566-573	4.6	38
341	Artificial Intelligence and Machine Learning in Arrhythmias and Cardiac Electrophysiology. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2020 , 13, e007952	6.4	38
340	Shape Features of the Lesion Habitat to Differentiate Brain Tumor Progression from Pseudoprogression on Routine Multiparametric MRI: A Multisite Study. <i>American Journal of Neuroradiology</i> , 2018 , 39, 2187-2193	4.4	38
339	Explicit shape descriptors: novel morphologic features for histopathology classification. <i>Medical Image Analysis</i> , 2013 , 17, 997-1009	15.4	37
338	A magnetic resonance spectroscopy driven initialization scheme for active shape model based prostate segmentation. <i>Medical Image Analysis</i> , 2011 , 15, 214-25	15.4	37
337	Generalized scale: Theory, algorithms, and application to image inhomogeneity correction. <i>Computer Vision and Image Understanding</i> , 2006 , 101, 100-121	4.3	37
336	Computer-extracted Features Can Distinguish Noncancerous Confounding Disease from Prostatic Adenocarcinoma at Multiparametric MR Imaging. <i>Radiology</i> , 2016 , 278, 135-45	20.5	36
335	A Radio-genomics Approach for Identifying High Risk Estrogen Receptor-positive Breast Cancers on DCE-MRI: Preliminary Results in Predicting OncotypeDX Risk Scores. <i>Scientific Reports</i> , 2016 , 6, 21394	4.9	36
334	An Image Analysis Resource for Cancer Research: PIIP-Pathology Image Informatics Platform for Visualization, Analysis, and Management. <i>Cancer Research</i> , 2017 , 77, e83-e86	10.1	36
333	An oral cavity squamous cell carcinoma quantitative histomorphometric-based image classifier of nuclear morphology can risk stratify patients for disease-specific survival. <i>Modern Pathology</i> , 2017 , 30, 1655-1665	9.8	34

332	Novel Quantitative Imaging for Predicting Response to Therapy: Techniques and Clinical Applications. <i>American Society of Clinical Oncology Educational Book / ASCO American Society of Clinical Oncology Meeting</i> , 2018 , 38, 1008-1018	7.1	34
331	Quantitative nuclear histomorphometry predicts oncotype DX risk categories for early stage ER+ breast cancer. <i>BMC Cancer</i> , 2018 , 18, 610	4.8	32
330	A high-throughput active contour scheme for segmentation of histopathological imagery. <i>Medical Image Analysis</i> , 2011 , 15, 851-62	15.4	32
329	Multi-field-of-view strategy for image-based outcome prediction of multi-parametric estrogen receptor-positive breast cancer histopathology: Comparison to Oncotype DX. <i>Journal of Pathology Informatics</i> , 2011 , 2, S1	4.4	32
328	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 multi-cohort study for outcome prediction. <i>The Lancet Digital Health</i> , 2020 , 2, e116-e128	14.4	31
327	A resolution adaptive deep hierarchical (RADHical) learning scheme applied to nuclear segmentation of digital pathology images. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2018 , 6, 270-276	0.9	31
326	Towards improved cancer diagnosis and prognosis using analysis of gene expression data and computer aided imaging. <i>Experimental Biology and Medicine</i> , 2009 , 234, 860-79	3.7	31
325	Predicting pathologic response to neoadjuvant chemoradiation in resectable stage III non-small cell lung cancer patients using computed tomography radiomic features. <i>Lung Cancer</i> , 2019 , 135, 1-9	5.9	30
324	Simultaneous Segmentation of Prostatic Zones Using Active Appearance Models With Multiple Coupled Levelsets. <i>Computer Vision and Image Understanding</i> , 2013 , 117, 1051-1060	4.3	30
323	Identifying the morphologic basis for radiomic features in distinguishing different Gleason grades of prostate cancer on MRI: Preliminary findings. <i>PLoS ONE</i> , 2018 , 13, e0200730	3.7	30
322	Cell orientation entropy (COre): predicting biochemical recurrence from prostate cancer tissue microarrays. <i>Lecture Notes in Computer Science</i> , 2013 , 16, 396-403	0.9	29
321	An integrated segmentation and shape-based classification scheme for distinguishing adenocarcinomas from granulomas on lung CT. <i>Medical Physics</i> , 2017 , 44, 3556-3569	4.4	28
320	Radiogenomic-Based Survival Risk Stratification of Tumor Habitat on Gd-T1w MRI Is Associated with Biological Processes in Glioblastoma. <i>Clinical Cancer Research</i> , 2020 , 26, 1866-1876	12.9	28
319	Nuclear Shape and Architecture in Benign Fields Predict Biochemical Recurrence in Prostate Cancer Patients Following Radical Prostatectomy: Preliminary Findings. <i>European Urology Focus</i> , 2017 , 3, 457-466 ^{5.1}	5.1	27
318	Integrated diagnostics: a conceptual framework with examples. <i>Clinical Chemistry and Laboratory Medicine</i> , 2010 , 48, 989-98	5.9	27
317	Statistical Shape Model for Manifold Regularization: Gleason grading of prostate histology. <i>Computer Vision and Image Understanding</i> , 2013 , 117, 1138-1146	4.3	26
316	Supervised regularized canonical correlation analysis: integrating histologic and proteomic measurements for predicting biochemical recurrence following prostate surgery. <i>BMC Bioinformatics</i> , 2011 , 12, 483	3.6	26
315	Novel PCA-VIP scheme for ranking MRI protocols and identifying computer-extracted MRI measurements associated with central gland and peripheral zone prostate tumors. <i>Journal of Magnetic Resonance Imaging</i> , 2015 , 41, 1383-93	5.6	25

314	Concurrent segmentation of the prostate on MRI and CT via linked statistical shape models for radiotherapy planning. <i>Medical Physics</i> , 2012 , 39, 2214-28	4.4	25
313	Incorporating domain knowledge for tubule detection in breast histopathology using O'Callaghan neighborhoods 2011 ,		25
312	Development and evaluation of deep learning-based segmentation of histologic structures in the kidney cortex with multiple histologic stains. <i>Kidney International</i> , 2021 , 99, 86-101	9.9	25
311	Radiomic Features of Primary Rectal Cancers on Baseline T-Weighted MRI Are Associated With Pathologic Complete Response to Neoadjuvant Chemoradiation: A Multisite Study. <i>Journal of Magnetic Resonance Imaging</i> , 2020 , 52, 1531-1541	5.6	24
310	Cell cluster graph for prediction of biochemical recurrence in prostate cancer patients from tissue microarrays 2013 ,		24
309	HistoStitcher(□): an interactive program for accurate and rapid reconstruction of digitized whole histological sections from tissue fragments. <i>Computerized Medical Imaging and Graphics</i> , 2011 , 35, 557-67	7.6	24
308	Selective invocation of shape priors for deformable segmentation and morphologic classification of prostate cancer tissue microarrays. <i>Computerized Medical Imaging and Graphics</i> , 2015 , 41, 3-13	7.6	23
307	EM-based segmentation-driven color standardization of digitized histopathology 2013 ,		22
306	Detecting prostatic adenocarcinoma from digitized histology using a multi-scale hierarchical classification approach. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006 , 2006, 4759-62		22
305	Quantitative Image Analysis of Human Epidermal Growth Factor Receptor 2 Immunohistochemistry for Breast Cancer: Guideline From the College of American Pathologists. <i>Archives of Pathology and Laboratory Medicine</i> , 2019 , 143, 1180-1195	5	22
304	Identifying in vivo DCE MRI markers associated with microvessel architecture and gleason grades of prostate cancer. <i>Journal of Magnetic Resonance Imaging</i> , 2016 , 43, 149-58	5.6	21
303	Cascaded ensemble of convolutional neural networks and handcrafted features for mitosis detection 2014 ,		21
302	Spectral embedding based active contour (SEAC) for lesion segmentation on breast dynamic contrast enhanced magnetic resonance imaging. <i>Medical Physics</i> , 2013 , 40, 032305	4.4	21
301	A deep learning classifier for prediction of pathological complete response to neoadjuvant chemotherapy from baseline breast DCE-MRI 2018 ,		21
300	Stable and discriminating features are predictive of cancer presence and Gleason grade in radical prostatectomy specimens: a multi-site study. <i>Scientific Reports</i> , 2018 , 8, 14918	4.9	21
299	Comparing radiomic classifiers and classifier ensembles for detection of peripheral zone prostate tumors on T2-weighted MRI: a multi-site study. <i>BMC Medical Imaging</i> , 2019 , 19, 22	2.9	20
298	High-throughput biomarker segmentation on ovarian cancer tissue microarrays via hierarchical normalized cuts. <i>IEEE Transactions on Biomedical Engineering</i> , 2012 , 59, 1240-52	5	19
297	Decision Support System for Detection of Diabetic Retinopathy Using Smartphones 2013 ,		19

296	Integrating Structural and Functional Imaging for Computer Assisted Detection of Prostate Cancer on Multi-Protocol 3 Tesla MRI. <i>Proceedings of SPIE</i> , 2009 , 7260, 726031	1.7	19
295	Comparing MR image intensity standardization against tissue characterizability of magnetization transfer ratio imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2006 , 24, 667-75	5.6	19
294	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,		19
293	Stable and discriminating radiomic predictor of recurrence in early stage non-small cell lung cancer: Multi-site study. <i>Lung Cancer</i> , 2020 , 142, 90-97	5.9	18
292	A comprehensive segmentation, registration, and cancer detection scheme on 3 Tesla in vivo prostate DCE-MRI. <i>Lecture Notes in Computer Science</i> , 2008 , 11, 662-9	0.9	18
291	Multisite evaluation of radiomic feature reproducibility and discriminability for identifying peripheral zone prostate tumors on MRI. <i>Journal of Medical Imaging</i> , 2019 , 6, 024502	2.6	18
290	Adaptive energy selective active contour with shape priors for nuclear segmentation and gleason grading of prostate cancer. <i>Lecture Notes in Computer Science</i> , 2011 , 14, 661-9	0.9	18
289	Combination of Peri-Tumoral and Intra-Tumoral Radiomic Features on Bi-Parametric MRI Accurately Stratifies Prostate Cancer Risk: A Multi-Site Study. <i>Cancers</i> , 2020 , 12,	6.6	18
288	Multi-Pass Adaptive Voting for Nuclei Detection in Histopathological Images. <i>Scientific Reports</i> , 2016 , 6, 33985	4.9	18
287	Feature Importance in Nonlinear Embeddings (FINE): Applications in Digital Pathology. <i>IEEE Transactions on Medical Imaging</i> , 2016 , 35, 76-88	11.7	17
286	Texture Descriptors to distinguish Radiation Necrosis from Recurrent Brain Tumors on multi-parametric MRI. <i>Proceedings of SPIE</i> , 2014 , 9035, 90352B	1.7	17
285	An integrated texton and bag of words classifier for identifying anaplastic medulloblastomas. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 3443-6	0.9	17
284	Computer-aided prognosis of ER+ breast cancer histopathology and correlating survival outcome with Oncotype DX assay 2009 ,		17
283	Spatially aware cell cluster(spACC1) graphs: predicting outcome in oropharyngeal pl6+ tumors. <i>Lecture Notes in Computer Science</i> , 2013 , 16, 412-9	0.9	17
282	Co-registration of pre-operative CT with ex vivo surgically excised ground glass nodules to define spatial extent of invasive adenocarcinoma on in vivo imaging: a proof-of-concept study. <i>European Radiology</i> , 2017 , 27, 4209-4217	8	16
281	A weighted mean shift, normalized cuts initialized color gradient based geodesic active contour model: applications to histopathology image segmentation 2010 ,		16
280	MULTI-MODAL DATA FUSION SCHEMES FOR INTEGRATED CLASSIFICATION OF IMAGING AND NON-IMAGING BIOMEDICAL DATA 2011 , 2011, 165-168	1.5	16
279	Evaluating feature selection strategies for high dimensional, small sample size datasets. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 949-52	0.9	16

278	Automated computer-derived prostate volumes from MR imaging data: comparison with radiologist-derived MR imaging and pathologic specimen volumes. <i>Radiology</i> , 2012 , 262, 144-51	20.5	16
277	A knowledge representation framework for integration, classification of multi-scale imaging and non-imaging data: Preliminary results in predicting prostate cancer recurrence by fusing mass spectrometry and histology 2009 ,		16
276	Empirical evaluation of cross-site reproducibility in radiomic features for characterizing prostate MRI 2018 ,		16
275	Correlation between MRI phenotypes and a genomic classifier of prostate cancer: preliminary findings. <i>European Radiology</i> , 2019 , 29, 4861-4870	8	15
274	Single cell qPCR reveals that additional HAND2 and microRNA-1 facilitate the early reprogramming progress of seven-factor-induced human myocytes. <i>PLoS ONE</i> , 2017 , 12, e0183000	3.7	15
273	Identifying Quantitative Multi-Parametric MRI Features For Treatment Related Changes after Laser Interstitial Thermal Therapy of Prostate Cancer. <i>Neurocomputing</i> , 2014 , 144, 13-23	5.4	15
272	Histostitcher—An informatics software platform for reconstructing whole-mount prostate histology using the extensible imaging platform framework. <i>Journal of Pathology Informatics</i> , 2014 , 5, 8	4.4	15
271	Content-based image retrieval of digitized histopathology in boosted spectrally embedded spaces. <i>Journal of Pathology Informatics</i> , 2015 , 6, 41	4.4	15
270	Markov random field driven region-based active contour model (MaRACel): application to medical image segmentation. <i>Lecture Notes in Computer Science</i> , 2010 , 13, 197-204	0.9	15
269	Machine Learning of 12-Lead QRS Waveforms to Identify Cardiac Resynchronization Therapy Patients With Differential Outcomes. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2020 , 13, e008210	6.4	14
268	A method for medulloblastoma tumor differentiation based on convolutional neural networks and transfer learning 2015 ,		14
267	Class-specific weighting for Markov random field estimation: application to medical image segmentation. <i>Medical Image Analysis</i> , 2012 , 16, 1477-89	15.4	14
266	Combination of computer extracted shape and texture features enables discrimination of granulomas from adenocarcinoma on chest computed tomography. <i>Journal of Medical Imaging</i> , 2018 , 5, 024501	2.6	14
265	Image segmentation with implicit color standardization using spatially constrained expectation maximization: detection of nuclei. <i>Lecture Notes in Computer Science</i> , 2012 , 15, 365-72	0.9	14
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