Anant Madabhushi

List of Publications by Year in Descending Order

421 papers	14,035 citations	59 h-index	109 g-index
484 ext. papers	18,189 ext. citations	5.4 avg, IF	7.03 L-index

#	Paper	IF	Citations
421	Artificial Intelligence and Melanoma: A Comprehensive Review of Clinical, Dermoscopic, and Histologic Applications.. *Pigment Cell and Melanoma Research*, **2022**,	4.5	2
420	New Radiomic Markers of Pulmonary Vein Morphology Associated With Post-Ablation Recurrence of Atrial Fibrillation.. *IEEE Journal of Translational Engineering in Health and Medicine*, **2022**, 10, 1800209	3	
419	Computational Imaging Biomarker Correlation with Intraocular Cytokine Expression in DME: Radiomics Insights from the IMAGINE Study. *Ophthalmology Science*, **2022**, 100123		
418	Quantitative Nuclear Histomorphometry Predicts Molecular Subtype and Clinical Outcome in Medulloblastomas: Preliminary Findings. *Journal of Pathology Informatics*, **2022**, 13, 100090	4.4	
417	History of the SPIE Medical Imaging Digital Pathology Conference.. *Journal of Medical Imaging*, **2022**, 9, 012203	2.6	
416	Novel imaging biomarkers predict outcomes in stage III unresectable non-small cell lung cancer treated with chemoradiation and durvalumab. **2022**, 10,		5
415	Machine Learning to Predict Risk of Relapse Using Cytologic Image Markers in Patients With Acute Myeloid Leukemia Posthematopoietic Cell Transplantation.. *JCO Clinical Cancer Informatics*, **2022**, 6, e2100156	5.2	2
414	Survival prediction on intrahepatic cholangiocarcinoma with histomorphological analysis on the whole slide images.. *Computers in Biology and Medicine*, **2022**, 146, 105520	7	2
413	The state of the art for artificial intelligence in lung digital pathology.. *Journal of Pathology*, **2022**,	9.4	3
412	Optical Coherence Tomography-Derived Radiomic Features Predict Anti-VEGF Response and Durability in Neovascular AMD. *Ophthalmology Science*, **2022**, 100171		
411	Response to: Correspondence on ‘Novel imaging biomarkers predict outcomes in stage III unresectable non-small cell lung cancer treated with chemoradiation and durvalumab’ by Zheng et al **2022**, 10, e005086		
410	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		1
409	Novel Non-Invasive Radiomic Signature on CT Scans Predicts Response to Platinum-Based Chemotherapy and Is Prognostic of Overall Survival in Small Cell Lung Cancer. *Frontiers in Oncology*, **2021**, 11, 744724	5.3	6
408	Artificial intelligence applied to breast pathology. *Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin*, **2021**, 1	5.1	3
407	Prostate cancer risk stratification via non-destructive 3D pathology with deep learning-assisted gland analysis. *Cancer Research*, **2021**,	10.1	5
406	A Pathologist-Annotated Dataset for Validating Artificial Intelligence: A Project Description and Pilot Study. *Journal of Pathology Informatics*, **2021**, 12, 45	4.4	7
405	Predicting cancer outcomes with radiomics and artificial intelligence in radiology. *Nature Reviews Clinical Oncology*, **2021**,	19.4	13

404	Radiomics-based assessment of ultra-widefield leakage patterns and vessel network architecture in the PERMEATE study: insights into treatment durability. *British Journal of Ophthalmology*, **2021**, 105, 1155-1160	5.5	4
403	A new machine learning approach for predicting likelihood of recurrence following ablation for atrial fibrillation from CT. *BMC Medical Imaging*, **2021**, 21, 45	2.9	3
402	Machine Learning-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	6.4	6
401	Prospective Evaluation of Repeatability and Robustness of Radiomic Descriptors in Healthy Brain Tissue Regions In Vivo Across Systematic Variations in T2-Weighted Magnetic Resonance Imaging Acquisition Parameters. *Journal of Magnetic Resonance Imaging*, **2021**, 54, 1009-1021	5.6	2
400	Computerized tumor multinucleation index (MuNI) is prognostic in p16+ oropharyngeal carcinoma. *Journal of Clinical Investigation*, **2021**, 131,	15.9	2
399	Novel imaging biomarkers predict progression-free survival in stage 3 NSCLC treated with chemoradiation and durvalumab.. *Journal of Clinical Oncology*, **2021**, 39, 3054-3054	2.2	1
398	Combination of quantitative features from H&E biopsies and CT scans predicts response to chemotherapy and overall survival in small cell lung cancer (SCLC).. *Journal of Clinical Oncology*, **2021**, 39, 8572-8572	2.2	1
397	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	14.3	83
396	Distinguishing granulomas from adenocarcinomas by integrating stable and discriminating radiomic features on non-contrast computed tomography scans. *European Journal of Cancer*, **2021**, 148, 146-158	7.5	7
395	An automated computational image analysis pipeline for histological grading of cardiac allograft rejection. *European Heart Journal*, **2021**, 42, 2356-2369	9.5	13
394	Computer extracted gland features from H&E predicts prostate cancer recurrence comparably to a genomic companion diagnostic test: a large multi-site study. *Npj Precision Oncology*, **2021**, 5, 35	9.8	2
393	Quality control stress test for deep learning-based diagnostic model in digital pathology. *Modern Pathology*, **2021**, 34, 2098-2108	9.8	9
392	Artificial Intelligence in Surveillance of Barrett Esophagus. *Cancer Research*, **2021**, 81, 3446-3448	10.1	1
391	Quick Annotator: an open-source digital pathology based rapid image annotation tool. *Journal of Pathology: Clinical Research*, **2021**, 7, 542-547	5.3	3
390	An integrated nomogram combining deep learning, Prostate Imaging-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	14.4	4
389	Computational pathology reveals unique spatial patterns of immune response in H&E images from COVID-19 autopsies: preliminary findings. *Journal of Medical Imaging*, **2021**, 8, 017501	2.6	1
388	Computationally Derived Cribriform Area Index from Prostate Cancer Hematoxylin and Eosin Images Is Associated with Biochemical Recurrence Following Radical Prostatectomy and Is Most Prognostic in Gleason Grade Group 2. *European Urology Focus*, **2021**, 7, 722-732	5.1	3
387	Test-retest repeatability of a deep learning architecture in detecting and segmenting clinically significant prostate cancer on apparent diffusion coefficient (ADC) maps. *European Radiology*, **2021**, 31, 379-391	8	3

386	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	10
385	Development and evaluation of deep learning-based segmentation of histologic structures in the kidney cortex with multiple histologic stains. *Kidney International*, **2021**, 99, 86-101	9.9	25
384	Computerized spermatogenesis staging (CSS) of mouse testis sections via quantitative histomorphological analysis. *Medical Image Analysis*, **2021**, 70, 101835	15.4	3
383	Assessment of a computerized quantitative quality control tool for whole slide images of kidney biopsies. *Journal of Pathology*, **2021**, 253, 268-278	9.4	8
382	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	15.4	12
381	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	8.8	8
380	Imaging Features of Vessels and Leakage Patterns Predict Extended Interval Aflibercept Dosing Using Ultra-Widefield Angiography in Retinal Vascular Disease: Findings From the PERMEATE Study. *IEEE Transactions on Biomedical Engineering*, **2021**, 68, 1777-1786	5	2
379	T1 and T2 MR fingerprinting measurements of prostate cancer and prostatitis correlate with deep learning-derived estimates of epithelium, lumen, and stromal composition on corresponding whole mount histopathology. *European Radiology*, **2021**, 31, 1336-1346	8	11
378	SPARTA: An Integrated Stability, Discriminability, and Sparsity Based Radiomic Feature Selection Approach. *Lecture Notes in Computer Science*, **2021**, 445-455	0.9	0
377	Deep Learning-Based Cancer Region Segmentation from H&E Slides for HPV-Related Oropharyngeal Squamous Cell Carcinomas **2021**, 137-147		
376	LuMiRa: An Integrated Lung Deformation Atlas and 3D-CNN Model of Infiltrates for COVID-19 Prognosis. *Lecture Notes in Computer Science*, **2021**, 367-377	0.9	
375	Image analysis in drug discovery **2021**, 159-189		
374	Multi-Compartment Spatially-Derived Radiomics From Optical Coherence Tomography Predict Anti-VEGF Treatment Durability in Macular Edema Secondary to Retinal Vascular Disease: Preliminary Findings. *IEEE Journal of Translational Engineering in Health and Medicine*, **2021**, 9, 1000113	3	2
373	Harnessing non-destructive 3D pathology. *Nature Biomedical Engineering*, **2021**, 5, 203-218	19	12
372	A prognostic and predictive computational pathology image signature for added benefit of adjuvant chemotherapy in early stage non-small-cell lung cancer. *EBioMedicine*, **2021**, 69, 103481	8.8	1
371	Amyloid Deposition Is Greater in Cerebral Gyri than in Cerebral Sulci with Worsening Clinical Diagnosis Across the Alzheimer's Disease Spectrum. *Journal of Alzheimer's Disease*, **2021**, 83, 423-433	4.3	
370	Collagen fiber orientation disorder from H&E images is prognostic for early stage breast cancer: clinical trial validation. *Npj Breast Cancer*, **2021**, 7, 104	7.8	4
369	Impact of p16 Status and Anatomical Site in Anti-PD-1 Immunotherapy-Treated Recurrent/Metastatic Head and Neck Squamous Cell Carcinoma Patients. *Cancers*, **2021**, 13,	6.6	2

368	Radiomic Features Associated With HPV Status on Pretreatment Computed Tomography in Oropharyngeal Squamous Cell Carcinoma Inform Clinical Prognosis. *Frontiers in Oncology*, **2021**, 11, 744250	5.7	2
367	Integrated Clinical and CT Based Artificial Intelligence Nomogram for Predicting Severity and Need for Ventilator Support in COVID-19 Patients: A Multi-Site Study. *IEEE Journal of Biomedical and Health Informatics*, **2021**, 25, 4110-4118	7.2	0
366	Report on computational assessment of Tumor Infiltrating Lymphocytes from the International Immuno-Oncology Biomarker Working Group. *Npj Breast Cancer*, **2020**, 6, 16	7.8	47
365	Pitfalls in assessing stromal tumor infiltrating lymphocytes (sTILs) in breast cancer. *Npj Breast Cancer*, **2020**, 6, 17	7.8	54
364	Automated gleason grading on prostate biopsy slides by statistical representations of homology profile. *Computer Methods and Programs in Biomedicine*, **2020**, 194, 105528	6.9	4
363	Machine Learning of 12-Lead QRS Waveforms to Identify Cardiac Resynchronization Therapy Patients With Differential Outcomes. *Circulation: Arrhythmia and Electrophysiology*, **2020**, 13, e008210	6.4	14
362	Quantitative Assessment of the Effects of Compression on Deep Learning in Digital Pathology Image Analysis. *JCO Clinical Cancer Informatics*, **2020**, 4, 221-233	5.2	6
361	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	12.9	9
360	Radiomic Features of Primary Rectal Cancers on Baseline T -Weighted MRI Are Associated With Pathologic Complete Response to Neoadjuvant Chemoradiation: A Multisite Study. *Journal of Magnetic Resonance Imaging*, **2020**, 52, 1531-1541	5.6	24
359	Artificial Intelligence and Machine Learning in Arrhythmias and Cardiac Electrophysiology. *Circulation: Arrhythmia and Electrophysiology*, **2020**, 13, e007952	6.4	38
358	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. *The Lancet Digital Health*, **2020**, 2, e116-e128	14.4	31
357	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	12.9	28
356	Stable and discriminating radiomic predictor of recurrence in early stage non-small cell lung cancer: Multi-site study. *Lung Cancer*, **2020**, 142, 90-97	5.9	18
355	CT-Radiomic Approach to Predict G1/2 Nonfunctional Pancreatic Neuroendocrine Tumor. *Academic Radiology*, **2020**, 27, e272-e281	4.3	11
354	Tumor Habitat-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	8.7	6
353	Radiomics risk score (RRS) on CT to predict survival and response to CDK 4/6 inhibitors in hormone receptor (HR) positive metastatic breast cancer (MBC).. *Journal of Clinical Oncology*, **2020**, 38, e13041-e13041	2.3	1
352	Repeatability of radiomics and machine learning for DWI: Short-term repeatability study of 112 patients with prostate cancer. *Magnetic Resonance in Medicine*, **2020**, 83, 2293-2309	4.4	11
351	Deep-learning approaches for Gleason grading of prostate biopsies. *Lancet Oncology, The*, **2020**, 21, 187-189	21.7	11

350	Changes in CT Radiomic Features Associated with Lymphocyte Distribution Predict Overall Survival and Response to Immunotherapy in Non-Small Cell Lung Cancer. *Cancer Immunology Research*, **2020** , 8, 108-119	12.5	72
349	Computer Extracted Features from Initial H&E Tissue Biopsies Predict Disease Progression for Prostate Cancer Patients on Active Surveillance. *Cancers*, **2020**, 12,	6.6	7
348	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
347	Technical Note: MRQy - An open-source tool for quality control of MR imaging data. *Medical Physics*, **2020**, 47, 6029-6038	4.4	12
346	Reimagining T Staging Through Artificial Intelligence and Machine Learning Image Processing Approaches in Digital Pathology. *JCO Clinical Cancer Informatics*, **2020**, 4, 1039-1050	5.2	4
345	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,	6.6	11
344	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,	6.6	18
343	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	14.4	12
342	Digital pathology and computational image analysis in nephropathology. *Nature Reviews Nephrology*, **2020**, 16, 669-685	14.9	44
341	Can Tumor Location on Pre-treatment MRI Predict Likelihood of Pseudo-Progression vs. Tumor Recurrence in Glioblastoma?-A Feasibility Study. *Frontiers in Computational Neuroscience*, **2020**, 14, 563439	3.5	
340	Machine Learning Prediction of Response to Cardiac Resynchronization Therapy: Improvement Versus Current Guidelines. *Circulation: Arrhythmia and Electrophysiology*, **2019**, 12, e007316	6.4	41
339	Association of Peritumoral Radiomics With Tumor Biology and Pathologic Response to Preoperative Targeted Therapy for HER2 (ERBB2)-Positive Breast Cancer. *JAMA Network Open*, **2019**, 2, e192561	10.4	98
338	HistoQC: An Open-Source Quality Control Tool for Digital Pathology Slides. *JCO Clinical Cancer Informatics*, **2019**, 3, 1-7	5.2	76
337	Combination of Peri- and Intratumoral Radiomic Features on Baseline CT Scans Predicts Response to Chemotherapy in Lung Adenocarcinoma. *Radiology: Artificial Intelligence*, **2019**, 1, e180012	8.7	42
336	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	2.9	20
335	Correlation between MRI phenotypes and a genomic classifier of prostate cancer: preliminary findings. *European Radiology*, **2019**, 29, 4861-4870	8	15
334	Mass Effect Deformation Heterogeneity (MEDH) on Gadolinium-contrast T1-weighted MRI is associated with decreased survival in patients with right cerebral hemisphere Glioblastoma: A feasibility study. *Scientific Reports*, **2019**, 9, 1145	4.9	5
333	Applications of machine learning in drug discovery and development. *Nature Reviews Drug Discovery*, **2019**, 18, 463-477	64.1	558

332	Disorder in Pixel-Level Edge Directions on T1WI Is Associated with the Degree of Radiation Necrosis in Primary and Metastatic Brain Tumors: Preliminary Findings. *American Journal of Neuroradiology*, **2019**, 40, 412-417	4.4	6
331	The revolving door for AI and pathologists-docendo discimus?. *Journal of Medical Artificial Intelligence*, **2019**, 2,	1.6	1
330	Artificial intelligence in digital pathology - new tools for diagnosis and precision oncology. *Nature Reviews Clinical Oncology*, **2019**, 16, 703-715	19.4	310
329	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	5.9	30
328	Quantitative nuclear histomorphometric features are predictive of Oncotype DX risk categories in ductal carcinoma in situ: preliminary findings. *Breast Cancer Research*, **2019**, 21, 114	8.3	10
327	Convolutional neural network initialized active contour model with adaptive ellipse fitting for nuclear segmentation on breast histopathological images. *Journal of Medical Imaging*, **2019**, 6, 017501	2.6	11
326	Radiomics-based convolutional neural network for brain tumor segmentation on multiparametric magnetic resonance imaging. *Journal of Medical Imaging*, **2019**, 6, 024005	2.6	6
325	Multisite evaluation of radiomic feature reproducibility and discriminability for identifying peripheral zone prostate tumors on MRI. *Journal of Medical Imaging*, **2019**, 6, 024502	2.6	18
324	Radiogenomic characterization of response to chemo-radiation therapy in glioblastoma is associated with PI3K/AKT/mTOR and apoptosis signaling pathways **2019**,		1
323	Radiomics of the lesion habitat on pre-treatment MRI predicts response to chemo-radiation therapy in Glioblastoma **2019**,		1
322	A combination of intra- and peritumoral features on baseline CT scans is associated with overall survival in non-small cell lung cancer patients treated with immune checkpoint inhibitors: a multi-agent multi-site study **2019**,		2
321	Quantitative vessel tortuosity radiomics on baseline non-contrast lung CT predict response to immunotherapy and are prognostic of overall survival **2019**,		6
320	Computerized histomorphometric features of glandular architecture predict risk of biochemical recurrence following radical prostatectomy: A multisite study.. *Journal of Clinical Oncology*, **2019**, 37, 5060-5060	2.2	2
319	Development and external validation of a deep learning model for predicting response to HER2-targeted neoadjuvant therapy from pretreatment breast MRI.. *Journal of Clinical Oncology*, **2019**, 37, 593-593	2.2	2
318	Association of radiomic features from prostate bi-parametric MRI with Decipher risk categories to predict risk for biochemical recurrence post-prostatectomy.. *Journal of Clinical Oncology*, **2019**, 37, e16561-e16561	2.2	1
317	Multi-tissue Partitioning for Whole Slide Images of Colorectal Cancer Histopathology Images with Deeptissue Net. *Lecture Notes in Computer Science*, **2019**, 100-108	0.9	3
316	STructural Rectal Atlas Deformation (StRAD) Features for Characterizing Intra- and Peri-wall Chemoradiation Response on MRI. *Lecture Notes in Computer Science*, **2019**, 611-619	0.9	1
315	Histopathological Image Analysis on Mouse Testes for Automated Staging of Mouse Seminiferous Tubule. *Lecture Notes in Computer Science*, **2019**, 117-124	0.9	1

314	Response Estimation Through Spatially Oriented Neural Network and Texture Ensemble (RESONATE). *Lecture Notes in Computer Science*, **2019**, 602-610	0.9	5
313	Deformation heterogeneity radiomics to predict molecular subtypes of pediatric Medulloblastoma on routine MRI **2019**,		1
312	Intra and perinodular CT delta radiomic features associated with early response to predict overall survival (OS) in immunotherapy-treated non-small cell lung cancer (NSCLC): A multisite multi-agent study.. *Journal of Clinical Oncology*, **2019**, 37, 2588-2588	2.2	
311	Radiomics in genitourinary cancers **2019**, 301-317		
310	Spatial Architecture and Arrangement of Tumor-Infiltrating Lymphocytes for Predicting Likelihood of Recurrence in Early-Stage Non-Small Cell Lung Cancer. *Clinical Cancer Research*, **2019**, 25, 1526-1534	12.9	87
309	Perinodular and Intranodular Radiomic Features on Lung CT Images Distinguish Adenocarcinomas from Granulomas. *Radiology*, **2019**, 290, 783-792	20.5	126
308	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	5	22
307	Radiomic features on MRI enable risk categorization of prostate cancer patients on active surveillance: Preliminary findings. *Journal of Magnetic Resonance Imaging*, **2018**, 48, 818	5.6	56
306	Radiogenomic analysis of hypoxia pathway is predictive of overall survival in Glioblastoma. *Scientific Reports*, **2018**, 8, 7	4.9	74
305	Coregistration of Preoperative MRI with Ex Vivo Mesorectal Pathology Specimens to Spatially Map Post-treatment Changes in Rectal Cancer Onto In Vivo Imaging: Preliminary Findings. *Academic Radiology*, **2018**, 25, 833-841	4.3	7
304	Advanced Morphologic Analysis for Diagnosing Allograft Rejection: The Case of Cardiac Transplant Rejection. *Transplantation*, **2018**, 102, 1230-1239	1.8	13
303	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	0.9	31
302	Quantitative nuclear histomorphometry predicts oncotype DX risk categories for early stage ER+ breast cancer. *BMC Cancer*, **2018**, 18, 610	4.8	32
301	Radiomic features from pretreatment biparametric MRI predict prostate cancer biochemical recurrence: Preliminary findings. *Journal of Magnetic Resonance Imaging*, **2018**, 48, 1626-1636	5.6	65
300	Advances in the computational and molecular understanding of the prostate cancer cell nucleus. *Journal of Cellular Biochemistry*, **2018**, 119, 7127-7142	4.7	9
299	Combination of computer extracted shape and texture features enables discrimination of granulomas from adenocarcinoma on chest computed tomography. *Journal of Medical Imaging*, **2018**, 5, 024501	2.6	14
298	Empirical evaluation of cross-site reproducibility in radiomic features for characterizing prostate MRI **2018**,		16
297	A deep learning classifier for prediction of pathological complete response to neoadjuvant chemotherapy from baseline breast DCE-MRI **2018**,		21

296	RaPtomics: integrating radiomic and pathomic features for predicting recurrence in early stage lung cancer **2018**,		3
295	A comparative analysis of sensitivity of convolutional neural networks for histopathology image classification in breast cancer **2018**,		2
294	Computer extracted features of cancer nuclei from H&E stained tissues of tumor predicts response to nivolumab in non-small cell lung cancer.. *Journal of Clinical Oncology*, **2018**, 36, 12061-12061	2.2	6
293	Computer-extracted stromal features of African-Americans versus Caucasians from H&E slides and impact on prognosis of biochemical recurrence.. *Journal of Clinical Oncology*, **2018**, 36, 12075-12075	2.2	1
292	Computer-extracted features relating to spatial arrangement of tumor infiltrating lymphocytes to predict response to nivolumab in non-small cell lung cancer (NSCLC).. *Journal of Clinical Oncology*, **2018**, 36, 12115-12115	2.2	8
291	Image-based risk score to predict recurrence of ER+ breast cancer in ECOG-ACRIN Cancer Research Group E2197.. *Journal of Clinical Oncology*, **2018**, 36, 540-540	2.2	6
290	Predicting neo-adjuvant chemotherapy response from pre-treatment breast MRI using machine learning and HER2 status.. *Journal of Clinical Oncology*, **2018**, 36, 582-582	2.2	1
289	Correlation of radiomic features with PD-L1 expression in early stage non-small cell lung cancer (ES-NSCLC) to predict recurrence and overall survival (OS).. *Journal of Clinical Oncology*, **2018**, 36, e24247-e24247	2.2	5
288	Computer-Aided Laser Dissection: A Microdissection Workflow Leveraging Image Analysis Tools. *Journal of Pathology Informatics*, **2018**, 9, 45	4.4	5
287	Combination of CT derived radiomic features and lymphovascular invasion status to predict disease recurrence following trimodality therapy in non-small cell lung cancer.. *Journal of Clinical Oncology*, **2018**, 36, e24314-e24314	2.2	
286	Vascular Network Organization via Hough Transform (VaNgOGH): A Novel Radiomic Biomarker for Diagnosis and Treatment Response. *Lecture Notes in Computer Science*, **2018**, 803-811	0.9	3
285	Radiomics and radiogenomics in lung cancer: A review for the clinician. *Lung Cancer*, **2018**, 115, 34-41	5.9	221
284	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	7.1	34
283	Radiomic features from pretreatment biparametric MRI predict prostate cancer biochemical recurrence: Preliminary findings. *Journal of Magnetic Resonance Imaging*, **2018**, 48, spcone-spcone	5.6	2
282	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	4.9	21
281	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	4.4	38
280	Quantitative vessel tortuosity: A potential CT imaging biomarker for distinguishing lung granulomas from adenocarcinomas. *Scientific Reports*, **2018**, 8, 15290	4.9	13
279	Feature Driven Local Cell Graph (FeDeG): Predicting Overall Survival in Early Stage Lung Cancer. *Lecture Notes in Computer Science*, **2018**, 407-416	0.9	5

278	Identifying the morphologic basis for radiomic features in distinguishing different Gleason grades of prostate cancer on MRI: Preliminary findings. *PLoS ONE*, **2018**, 13, e0200730	3.7	30
277	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	3.7	68
276	A deep-learning classifier identifies patients with clinical heart failure using whole-slide images of H&E tissue. *PLoS ONE*, **2018**, 13, e0192726	3.7	63
275	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	5.9	52
274	Stain Normalization using Sparse AutoEncoders (StaNoSA): Application to digital pathology. *Computerized Medical Imaging and Graphics*, **2017**, 57, 50-61	7.6	101
273	Dimensionality reduction-based fusion approaches for imaging and non-imaging biomedical data: concepts, workflow, and use-cases. *BMC Medical Imaging*, **2017**, 17, 2	2.9	11
272	Computational imaging reveals shape differences between normal and malignant prostates on MRI. *Scientific Reports*, **2017**, 7, 41261	4.9	9
271	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	4.6	38
270	Accurate and reproducible invasive breast cancer detection in whole-slide images: A Deep Learning approach for quantifying tumor extent. *Scientific Reports*, **2017**, 7, 46450	4.9	233
269	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	8.3	246
268	. *American Journal of Neuroradiology*, **2017**, 38, E22	4.4	
267	Radiogenomic analysis of hypoxia pathway reveals computerized MRI descriptors predictive of overall survival in glioblastoma **2017**,		6
266	Connecting Markov random fields and active contour models: application to gland segmentation and classification. *Journal of Medical Imaging*, **2017**, 4, 021107	2.6	4
265	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. *European Radiology*, **2017**, 27, 4209-4217	8	16
264	Training a cell-level classifier for detecting basal-cell carcinoma by combining human visual attention maps with low-level handcrafted features. *Journal of Medical Imaging*, **2017**, 4, 021105	2.6	3
263	An integrated segmentation and shape-based classification scheme for distinguishing adenocarcinomas from granulomas on lung CT. *Medical Physics*, **2017**, 44, 3556-3569	4.4	28
262	Optical High Content Nanoscopy of Epigenetic Marks Decodes Phenotypic Divergence in Stem Cells. *Scientific Reports*, **2017**, 7, 39406	4.9	3
261	Radiomic features for prostate cancer detection on MRI differ between the transition and peripheral zones: Preliminary findings from a multi-institutional study. *Journal of Magnetic Resonance Imaging*, **2017**, 46, 184-193	5.6	82

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