# Anant Madabhushi

List of Publications by Year
in descending order

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| 477 | 22,727 | 13098 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 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 T<sub>2</sub>â€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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 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 |
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