Cheng Lu

List of Publications by Year
in descending order

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49 papers	1,178 citations	430874 18 h-index	414414 32 g-index
49 all docs	49 docs citations	49 times ranked	1384 citing authors

#	Article	IF	Citations
1	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
2	Computerâ€extracted features of nuclear morphology in hematoxylin and eosin images distinguish <scp>s</scp>tage <scp>II</scp> and <scp>IV</scp> colon tumors. Journal of Pathology, 2022, 257, 17-28.	4.5	4
3	Oropharyngeal cancer outcomes correlate with p16 status, multinucleation and immune infiltration. Modern Pathology, 2022, 35, 1045-1054.	5.5	16
4	Identifying the origination of liver metastasis using a hand-crafted computational pathology approach. , 2022, , .		0
5	Survival prediction on intrahepatic cholangiocarcinoma with histomorphological analysis on the whole slide images. Computers in Biology and Medicine, 2022, 146, 105520.	7.0	7
6	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
7	Image analysis reveals molecularly distinct patterns of TILs in NSCLC associated with treatment outcome. Npj Precision Oncology, 2022, 6, .	5.4	20
8	A machine learning model for separating epithelial and stromal regions in oral cavity squamous cell carcinomas using H&E-stained histology images: A multi-center, retrospective study. Oral Oncology, 2022, 131, 105942.	1.5	6
9	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.	3.9	15
10	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
11	Deep Learning-Based Cancer Region Segmentation from H&E Slides for HPV-Related Oropharyngeal Squamous Cell Carcinomas. , 2021, , 137-147.		0
12	Computerized tumor multinucleation index (MuNI) is prognostic in p16+ oropharyngeal carcinoma. Journal of Clinical Investigation, 2021, 131, .	8.2	24
13	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.	6.1	11
14	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
15	Radiomic Features Associated With HPV Status on Pretreatment Computed Tomography in Oropharyngeal Squamous Cell Carcinoma Inform Clinical Prognosis. Frontiers in Oncology, 2021, 11, 744250.	2.8	16
16	An unsupervised method for histological image segmentation based on tissue cluster level graph cut. Computerized Medical Imaging and Graphics, 2021, 93, 101974.	5.8	13
17	Integrating pathomics with radiomics and genomics for cancer prognosis: A brief review. Chinese Journal of Cancer Research: Official Journal of China Anti-Cancer Association, Beijing Institute for Cancer Research, 2021, 33, 563-573.	2.2	23
18	Nuclei Instance Segmentation and Classification in Histopathological Images using a DT-Yolact. , 2021, , .		3

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19	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
20	Glandular orientation and shape determined by computational pathology could identify aggressive tumor for early colon carcinoma: a triple-center study. Journal of Translational Medicine, 2020, 18, 129.	4.4	2
21	Deep learning-based histopathological image analysis for automated detection and staging of melanoma. , 2020, , 237-265.		10
22	Adherent Nuclei Edge Detection Based on Caps-Unet. , 2020, , .		0
23	Nuclear shape, architecture and orientation features from H&E images are able to predict recurrence in node-negative gastric adenocarcinoma. Journal of Translational Medicine, 2019, 17, 92.	4.4	22
24	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
25	Convolutional neural network initialized active contour model with adaptive ellipse fitting for nuclear segmentation on breast histopathological images. Journal of Medical Imaging, 2019, 6, 1.	1.5	16
26	Automated analysis and classification of melanocytic tumor on skin whole slide images. Computerized Medical Imaging and Graphics, 2018, 66, 124-134.	5.8	44
27	Feature Driven Local Cell Graph (FeDeG): Predicting Overall Survival in Early Stage Lung Cancer. Lecture Notes in Computer Science, 2018, , 407-416.	1.3	10
28	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
29	Automatic Nuclei Detection Based on Generalized Laplacian of Gaussian Filters. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 826-837.	6.3	54
30	Automatic Nuclear Segmentation Using Multiscale Radial Line Scanning With Dynamic Programming. IEEE Transactions on Biomedical Engineering, 2017, 64, 2475-2485.	4.2	17
31	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
32	Multi-Pass Adaptive Voting for Nuclei Detection in Histopathological Images. Scientific Reports, 2016, 6, 33985.	3.3	25
33	Automated image analysis of nuclear atypia in highâ€power field histopathological image. Journal of Microscopy, 2015, 258, 233-240.	1.8	25
34	Automated segmentation of regions of interest in whole slide skin histopathological images. , 2015, 2015, 3869-72.		2
35	Automated analysis and diagnosis of skin melanoma on whole slide histopathological images. Pattern Recognition, 2015, 48, 2738-2750.	8.1	59
36	Automated segmentation of the epidermis area in skin whole slide histopathological images. IET Image Processing, 2015, 9, 735-742.	2.5	7

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37	An Efficient Technique for Nuclei Segmentation Based on Ellipse Descriptor Analysis and Improved Seed Detection Algorithm. IEEE Journal of Biomedical and Health Informatics, 2014, 18, 1729-1741.	6.3	58
38	Efficient epidermis segmentation for whole slide skin histopathological images. , 2014, 2014, 5546-9.		1
39	Toward Automatic Mitotic Cell Detection and Segmentation in Multispectral Histopathological Images. IEEE Journal of Biomedical and Health Informatics, 2014, 18, 594-605.	6.3	45
40	Automated Segmentation of the Melanocytes in Skin Histopathological Images. IEEE Journal of Biomedical and Health Informatics, 2013, 17, 284-296.	6.3	50
41	A fusion-based approach for uterine cervical cancer histology image classification. Computerized Medical Imaging and Graphics, 2013, 37, 475-487.	5.8	34
42	Detection of melanocytes in skin histopathological images using radial line scanning. Pattern Recognition, 2013, 46, 509-518.	8.1	25
43	Singular point detection based on orientation filed regularization and poincaré index in fingerprint images. , 2013, , .		4
44	Automated segmentation and analysis of the epidermis area in skin histopathological images. , 2012, 2012, 5355-9.		7
45	Choice of low resolution sample sets for efficient super-resolution signal reconstruction. Journal of Visual Communication and Image Representation, 2012, 23, 194-207.	2.8	3
46	A robust automatic nuclei segmentation technique for quantitative histopathological image analysis. Analytical and Quantitative Cytopathology and Histopathology, 2012, 34, 296-308.	0.2	10
47	Efficient video sequences alignment using unbiased bidirectional dynamic time warping. Journal of Visual Communication and Image Representation, 2011, 22, 606-614.	2.8	5
48	Improved Demons Technique with Orthogonal Gradient Information for Medical Image Registration. IEICE Transactions on Information and Systems, 2010, E93-D, 3414-3417.	0.7	5
49	Improved image registration technique based on Demons and symmetric orthogonal gradient information. , 2010, , .		1