Pekka Ruusuvuori

List of Publications by Year
in descending order

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73 papers	3,792 citations	361045 20 h-index	189595 50 g-index
74 all docs	74 docs citations	74 times ranked	5805 citing authors

#	Article	IF	Citations
1	Diagnostic Assessment of Deep Learning Algorithms for Detection of Lymph Node Metastases in Women With Breast Cancer. JAMA - Journal of the American Medical Association, 2017, 318, 2199.	3.8	2,003
2	Artificial intelligence for diagnosis and grading of prostate cancer in biopsies: a population-based, diagnostic study. Lancet Oncology, The, 2020, 21, 222-232.	5.1	364
3	Computational Framework for Simulating Fluorescence Microscope Images With Cell Populations. IEEE Transactions on Medical Imaging, 2007, 26, 1010-1016.	5.4	165
4	Artificial intelligence for diagnosis and Gleason grading of prostate cancer: the PANDA challenge. Nature Medicine, 2022, 28, 154-163.	15.2	143
5	Bright Field Microscopy as an Alternative to Whole Cell Fluorescence in Automated Analysis of Macrophage Images. PLoS ONE, 2009, 4, e7497.	1.1	91
6	Probabilistic analysis of gene expression measurements from heterogeneous tissues. Bioinformatics, 2010, 26, 2571-2577.	1.8	75
7	ANHIR: Automatic Non-Rigid Histological Image Registration Challenge. IEEE Transactions on Medical Imaging, 2020, 39, 3042-3052.	5.4	75
8	Evaluation of methods for detection of fluorescence labeled subcellular objects in microscope images. BMC Bioinformatics, 2010, 11, 248.	1.2	66
9	Simulation of microarray data with realistic characteristics. BMC Bioinformatics, 2006, 7, 349.	1.2	55
10	The 9th annual MLSP competition: New methods for acoustic classification of multiple simultaneous bird species in a noisy environment. , 2013, , .		50
11	Evaluating the performance of microarray segmentation algorithms. Bioinformatics, 2006, 22, 2910-2917.	1.8	41
12	Metastasis detection from whole slide images using local features and random forests. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2017, 91, 555-565.	1.1	37
13	Cytokeratin-Supervised Deep Learning for Automatic Recognition of Epithelial Cells in Breast Cancers Stained for ER, PR, and Ki-67. IEEE Transactions on Medical Imaging, 2020, 39, 534-542.	5.4	33
14	Predicting Molecular Phenotypes from Histopathology Images: A Transcriptome-Wide Expressionâ€“Morphology Analysis in Breast Cancer. Cancer Research, 2021, 81, 5115-5126.	0.4	32
15	Comparative analysis of tissue reconstruction algorithms for 3D histology. Bioinformatics, 2018, 34, 3013-3021.	1.8	30
16	Virtual cell imaging: A review on simulation methods employed in image cytometry. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2016, 89, 1057-1072.	1.1	27
17	Synthetic Images of High-Throughput Microscopy for Validation of Image Analysis Methods. Proceedings of the IEEE, 2008, 96, 1348-1360.	16.4	25
18	Identity verification based on vessel matching from fundus images. , 2010, , .		25

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19	Bioactive Acellular Implant Induces Angiogenesis and Adipogenesis and Sustained Soft Tissue Restoration In Vivo. Tissue Engineering - Part A, 2012, 18, 2568-2580.	1.6	25
20	Simulating fluorescent microscope images of cell populations. , 2005, 2005, 3153-6.		24
21	Glioblastoma Multiforme Stem Cell Cycle Arrest by Alkylaminophenol through the Modulation of EGFR and CSC Signaling Pathways. Cells, 2020, 9, 681.	1.8	23
22	Recurrent SKIL-activating rearrangements in ETS-negative prostate cancer. Oncotarget, 2015, 6, 6235-6250.	0.8	23
23	Single cell characterization of B-lymphoid differentiation and leukemic cell states during chemotherapy in ETV6-RUNX1-positive pediatric leukemia identifies drug-targetable transcription factor activities. Genome Medicine, 2020, 12, 99.	3.6	22
24	Leukemia Prediction Using Sparse Logistic Regression. PLoS ONE, 2013, 8, e72932.	1.1	22
25	Quantitative analysis of colony morphology in yeast. BioTechniques, 2014, 56, 18-27.	0.8	21
26	Convolutional Neural Network-Based Artificial Intelligence for Classification of Protein Localization Patterns. Biomolecules, 2021, 11, 264.	1.8	18
27	Artificial Intelligence for Diagnosis and Gleason Grading of Prostate Cancer in Biopsiesâ€"Current Status and Next Steps. European Urology Focus, 2021, 7, 687-691.	1.6	18
28	OUP accepted manuscript. Neuro-Oncology, 2017, 19, 1206-1216.	0.6	17
29	Phosphorylation of NFATC1 at PIM1 target sites is essential for its ability to promote prostate cancer cell migration and invasion. Cell Communication and Signaling, 2019, 17, 148.	2.7	17
30	Unidirectional P-Body Transport during the Yeast Cell Cycle. PLoS ONE, 2014, 9, e99428.	1.1	17
31	InÂVivo Expression of miR-32 Induces Proliferation in Prostate Epithelium. American Journal of Pathology, 2017, 187, 2546-2557.	1.9	16
32	Feasibility of Prostate PAXgene Fixation for Molecular Research and Diagnostic Surgical Pathology. American Journal of Surgical Pathology, 2018, 42, 103-115.	2.1	14
33	Virtual reality for 3D histology: multi-scale visualization of organs with interactive feature exploration. BMC Cancer, 2021, 21, 1133.	1.1	13
34	Reconstruction and Validation of RefRec: A Global Model for the Yeast Molecular Interaction Network. PLoS ONE, 2010, 5, e10662.	1.1	12
35	Flow Cytometry-Based Classification in Cancer Research: A View on Feature Selection. Cancer Informatics, 2015, 14s5, CIN.S30795.	0.9	12
36	Analysis of spatial heterogeneity in normal epithelium and preneoplastic alterations in mouse prostate tumor models. Scientific Reports, 2017, 7, 44831.	1.6	10

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37	Generalized Fixation Invariant Nuclei Detection Through Domain Adaptation Based Deep Learning. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 1747-1757.	3.9	10
38	Echovirus 1 internalization negatively regulates epidermal growth factor receptor downregulation. Cellular Microbiology, 2017, 19, e12671.	1.1	9
39	Data-Driven Approach to Benthic Cover Type Classification Using Bathymetric LiDAR Waveform Analysis. Remote Sensing, 2015, 7, 13390-13409.	1.8	8
40	Training based cell detection from bright-field microscope images. , 2015, , .		8
41	Feature-based analysis of mouse prostatic intraepithelial neoplasia in histological tissue sections. Journal of Pathology Informatics, 2016, 7, 5.	0.8	8
42	Efficient automated method for image-based classification of microbial cells. , 2008, , .		7
43	Dual Structured Convolutional Neural Network with Feature Augmentation for Quantitative Characterization of Tissue Histology. , 2017, , .		7
44	Interobserver reproducibility of perineural invasion of prostatic adenocarcinoma in needle biopsies. Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin, 2021, 478, 1109-1116.	1.4	7
45	Detection of perineural invasion in prostate needle biopsies with deep neural networks. Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin, 2022, 481, 73-82.	1.4	7
46	Computational Methods for Estimation of Cell Cycle Phase Distributions of Yeast Cells. Eurasip Journal on Bioinformatics and Systems Biology, 2007, 2007, 1-9.	1.4	6
47	Iterative unsupervised domain adaptation for generalized cell detection from brightfield z-stacks. BMC Bioinformatics, 2019, 20, 80.	1.2	6
48	Spatial analysis of histology in 3D: quantification and visualization of organ and tumor level tissue environment. Heliyon, 2022, 8, e08762.	1.4	6
49	Multi-scale Gaussian representation and outline-learning based cell image segmentation. BMC Bioinformatics, 2013, 14, S6.	1.2	5
50	Supervised method for cell counting from bright field focus stacks. , 2016, , .		5
51	Building a central repository landmarks a new era for artificial intelligenceâ€“assisted digital pathology development in Europe. European Journal of Cancer, 2021, 150, 31-32.	1.3	4
52	miR-32 promotes MYC-driven prostate cancer. Oncogenesis, 2022, 11, 11.	2.1	4
53	Three-Dimensional Digital Image Analysis of Immunostained Neurons in Thick Tissue Sections. , 2006, 2006, 4783-6.		3
54	Quantitative Analysis of Dynamic Association in Live Biological Fluorescent Samples. PLoS ONE, 2014, 9, e94245.	1.1	3

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55	3D-Printed Whole Prostate Models with Tumor Hotspots Using Dual-Extruder Printer. , 2019, 2019, 2867-2871.		3
56	OpenPhi: an interface to access Philips iSyntax whole slide images for computational pathology. Bioinformatics, 2021, 37, 3995-3997.	1.8	3
57	Dynamic adaptation of interconnections in inkjet printed electronics. , 2008, , .		2
58	Object detection for dynamic adaptation of interconnections in inkjet printed electronics. , 2008, , .		2
59	Sparse logistic regression and polynomial modelling for detection of artificial drainage networks. Remote Sensing Letters, 2015, 6, 311-320.	0.6	2
60	Classification of quantized small sample data. , 2006, , .		1
61	Microarray Simulator as Educational Tool. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 5920-3.	0.5	1
62	Alignment of Individually Adapted Print Patterns for Ink Jet Printed Electronics. Journal of Imaging Science and Technology, 2010, 54, 050306.	0.3	1
63	Benchmarking of algorithms for 3D tissue reconstruction. , 2016, , .		1
64	Learning-based method for spot addressing in microarray images. , 2005, , .		0
65	The eighth annual MLSP competition: Second place team. , 2012, , .		0
66	Graph cut and image intensity-based splitting improves nuclei segmentation in high-content screening. , 2013, , .		0
67	The emerging role of artificial intelligence in the reporting of prostate pathology. Pathology, 2021, 53, 565-567.	0.3	0
68	Abstract 3061: In vivo role of miR-32 in prostate cancer. , 2015, , .		0
69	Abstract B077: 3D reconstruction and machine learning-based analysis of prostate cancer from histologic images. , 2018, , .		0
70	Abstract 4393: Integrative proteomic analysis of prostate cancer reveals distinct regulation of RNA binding proteins during disease progression. , 2019, , .		0
71	Abstract 1634: Orthotopic and bone metastasis prostate cancer models using the 22Rv1 cell line. , 2020, , .		0
72	Abstract 46: 3D reconstruction and quantitative analysis of histology for prostate cancer. , 2019, , .		0

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73	Parametric modeling in biomedical image synthesis. , 2022, , 7-21.		0