

# Yoganand Balagurunathan

## List of Publications by Year in descending order

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Version: 2024-02-01

95  
papers

7,168  
citations

117625

34  
h-index

62596

80  
g-index

99  
all docs

99  
docs citations

99  
times ranked

10284  
citing authors

#	ARTICLE	IF	CITATIONS
1	Radiomics: the process and the challenges. <i>Magnetic Resonance Imaging</i> , 2012, 30, 1234-1248.	1.8	1,675
2	Acidity Generated by the Tumor Microenvironment Drives Local Invasion. <i>Cancer Research</i> , 2013, 73, 1524-1535.	0.9	1,036
3	Intrinsic dependencies of <scp>CT</scp> radiomic features on voxel size and number of gray levels. <i>Medical Physics</i> , 2017, 44, 1050-1062.	3.0	428
4	Radiomic Features Are Associated With EGFR Mutation Status in Lung Adenocarcinomas. <i>Clinical Lung Cancer</i> , 2016, 17, 441-448.e6.	2.6	264
5	Reproducibility and Prognosis of Quantitative Features Extracted from CT Images. <i>Translational Oncology</i> , 2014, 7, 72-87.	3.7	258
6	Predicting Malignant Nodules from Screening CT Scans. <i>Journal of Thoracic Oncology</i> , 2016, 11, 2120-2128.	1.1	226
7	Testâ€“Retest Reproducibility Analysis of Lung CT Image Features. <i>Journal of Digital Imaging</i> , 2014, 27, 805-823.	2.9	216
8	Quantitative Computed Tomographic Descriptors Associate Tumor Shape Complexity and Intratumor Heterogeneity with Prognosis in Lung Adenocarcinoma. <i>PLoS ONE</i> , 2015, 10, e0118261.	2.5	207
9	CT Features Associated with Epidermal Growth Factor Receptor Mutation Status in Patients with Lung Adenocarcinoma. <i>Radiology</i> , 2016, 280, 271-280.	7.3	180
10	Estrogen induces apoptosis in estrogen deprivation-resistant breast cancer through stress responses as identified by global gene expression across time. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 18879-18886.	7.1	151
11	High metabolic tumor volume is associated with decreased efficacy of axicabtagene ciloleucel in large B-cell lymphoma. <i>Blood Advances</i> , 2020, 4, 3268-3276.	5.2	134
12	Deep Feature Transfer Learning in Combination with Traditional Features Predicts Survival among Patients with Lung Adenocarcinoma. <i>Tomography</i> , 2016, 2, 388-395.	1.8	128
13	Comparison of Established and Emerging Biodosimetry Assays. <i>Radiation Research</i> , 2013, 180, 111-119.	1.5	123
14	Prostate cancer radiomics and the promise of radiogenomics. <i>Translational Cancer Research</i> , 2016, 5, 432-447.	1.0	111
15	Defining Cancer Subpopulations by Adaptive Strategies Rather Than Molecular Properties Provides Novel Insights into Intratumoral Evolution. <i>Cancer Research</i> , 2017, 77, 2242-2254.	0.9	110
16	Radiomics of Lung Nodules: A Multi-Institutional Study of Robustness and Agreement of Quantitative Imaging Features. <i>Tomography</i> , 2016, 2, 430-437.	1.8	108
17	Predicting Outcomes of Nonsmall Cell Lung Cancer Using CT Image Features. <i>IEEE Access</i> , 2014, 2, 1418-1426.	4.2	104
18	Acidity promotes tumour progression by altering macrophage phenotype in prostate cancer. <i>British Journal of Cancer</i> , 2019, 121, 556-566.	6.4	86

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19	Radiologically Defined Ecological Dynamics and Clinical Outcomes in Glioblastoma Multiforme: Preliminary Results. <i>Translational Oncology</i> , 2014, 7, 5-13.	3.7	82
20	Radiological Image Traits Predictive of Cancer Status in Pulmonary Nodules. <i>Clinical Cancer Research</i> , 2017, 23, 1442-1449.	7.0	76
21	Laboratory Intercomparison of Gene Expression Assays. <i>Radiation Research</i> , 2013, 180, 138-148.	1.5	74
22	Intermittent Hypoxia Selects for Genotypes and Phenotypes That Increase Survival, Invasion, and Therapy Resistance. <i>PLoS ONE</i> , 2015, 10, e0120958.	2.5	65
23	CT imaging features associated with recurrence in non-small cell lung cancer patients after stereotactic body radiotherapy. <i>Radiation Oncology</i> , 2017, 12, 158.	2.7	63
24	Epigenetic Transdifferentiation of Normal Melanocytes by a Metastatic Melanoma Microenvironment. <i>Cancer Research</i> , 2005, 65, 10164-10169.	0.9	61
25	Standardization in Quantitative Imaging: A Multicenter Comparison of Radiomic Features from Different Software Packages on Digital Reference Objects and Patient Data Sets. <i>Tomography</i> , 2020, 6, 118-128.	1.8	61
26	Linc-ing Circulating Long Non-coding RNAs to the Diagnosis and Malignant Prediction of Intraductal Papillary Mucinous Neoplasms of the Pancreas. <i>Scientific Reports</i> , 2017, 7, 10484.	3.3	60
27	Radiologic Features of Small Pulmonary Nodules and Lung Cancer Risk in the National Lung Screening Trial: A Nested Case-Control Study. <i>Radiology</i> , 2018, 286, 298-306.	7.3	58
28	Unraveling gene-gene interactions regulated by ligands of the aryl hydrocarbon receptor.. <i>Environmental Health Perspectives</i> , 2004, 112, 403-412.	6.0	54
29	A shallow convolutional neural network predicts prognosis of lung cancer patients in multi-institutional computed tomography image datasets. <i>Nature Machine Intelligence</i> , 2020, 2, 274-282.	16.0	54
30	Imaging features from pretreatment CT scans are associated with clinical outcomes in nonsmall-cell lung cancer patients treated with stereotactic body radiotherapy. <i>Medical Physics</i> , 2017, 44, 4341-4349.	3.0	53
31	Delineation of Tumor Habitats based on Dynamic Contrast Enhanced MRI. <i>Scientific Reports</i> , 2017, 7, 9746.	3.3	48
32	Peritumoral and intratumoral radiomic features predict survival outcomes among patients diagnosed in lung cancer screening. <i>Scientific Reports</i> , 2020, 10, 10528.	3.3	46
33	Differences in Patient Outcomes of Prevalence, Interval, and Screen-Detected Lung Cancers in the CT Arm of the National Lung Screening Trial. <i>PLoS ONE</i> , 2016, 11, e0159880.	2.5	46
34	Simulation of cDNA microarrays via a parameterized random signal model. <i>Journal of Biomedical Optics</i> , 2002, 7, 507.	2.6	44
35	Integrated Biomarkers for the Management of Indeterminate Pulmonary Nodules. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021, 204, 1306-1316.	5.6	36
36	Quantitative Imaging features Improve Discrimination of Malignancy in Pulmonary nodules. <i>Scientific Reports</i> , 2019, 9, 8528.	3.3	35

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37	Genomic profiles and predictive biological networks in oxidant-induced atherogenesis. <i>Physiological Genomics</i> , 2003, 13, 263-275.	2.3	34
38	Multiphase computed tomography radiomics of pancreatic intraductal papillary mucinous neoplasms to predict malignancy. <i>World Journal of Gastroenterology</i> , 2020, 26, 3458-3471.	3.3	34
39	Requirements and reliability of AI in the medical context. <i>Physica Medica</i> , 2021, 83, 72-78.	0.7	30
40	Multiparameter MRI Predictors of Long-Term Survival in Glioblastoma Multiforme. <i>Tomography</i> , 2019, 5, 135-144.	1.8	28
41	Delta radiomic features improve prediction for lung cancer incidence: A nested case-control analysis of the National Lung Screening Trial. <i>Cancer Medicine</i> , 2018, 7, 6340-6356.	2.8	27
42	Mechanisms of buffer therapy resistance. <i>Neoplasia</i> , 2014, 16, 354-364.e3.	5.3	26
43	Radial gradient and radial deviation radiomic features from pre-surgical CT scans are associated with survival among lung adenocarcinoma patients. <i>Oncotarget</i> , 2017, 8, 96013-96026.	1.8	26
44	Prediction of pathological nodal involvement by CT-based Radiomic features of the primary tumor in patients with clinically node-negative peripheral lung adenocarcinomas. <i>Medical Physics</i> , 2018, 45, 2518-2526.	3.0	26
45	Gene expression profiling-based identification of cell-surface targets for developing multimeric ligands in pancreatic cancer. <i>Molecular Cancer Therapeutics</i> , 2008, 7, 3071-3080.	4.1	25
46	Explaining Deep Features Using Radiologist-Defined Semantic Features and Traditional Quantitative Features. <i>Tomography</i> , 2019, 5, 192-200.	1.8	24
47	Noise factor analysis for cDNA microarrays. <i>Journal of Biomedical Optics</i> , 2004, 9, 663.	2.6	21
48	Comparison Between Radiological Semantic Features and Lung-RADS in Predicting Malignancy of Screen-Detected Lung Nodules in the National Lung Screening Trial. <i>Clinical Lung Cancer</i> , 2018, 19, 148-156.e3.	2.6	20
49	Predicting clinically significant prostate cancer using DCE-MRI habitat descriptors. <i>Oncotarget</i> , 2018, 9, 37125-37136.	1.8	20
50	<sup>18</sup> F-FDG PET/CT Habitat Radiomics Predicts Outcome of Patients with Cervical Cancer Treated with Chemoradiotherapy. <i>Radiology: Artificial Intelligence</i> , 2020, 2, e190218.	5.8	19
51	Multi-window CT based Radiomic signatures in differentiating indolent versus aggressive lung cancers in the National Lung Screening Trial: a retrospective study. <i>Cancer Imaging</i> , 2019, 19, 45.	2.8	18
52	Association Between Computed Tomographic Features and Kirsten Rat Sarcoma Viral Oncogene Mutations in Patients With Stage I Lung Adenocarcinoma and Their Prognostic Value. <i>Clinical Lung Cancer</i> , 2016, 17, 271-278.	2.6	17
53	Semi-automated pulmonary nodule interval segmentation using the NLST data. <i>Medical Physics</i> , 2018, 45, 1093-1107.	3.0	17
54	Quantitative Measures of Background Parenchymal Enhancement Predict Breast Cancer Risk. <i>American Journal of Roentgenology</i> , 2021, 217, 64-75.	2.2	17

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55	Radiomic biomarkers from PET/CT multi-modality fusion images for the prediction of immunotherapy response in advanced non-small cell lung cancer patients. , 2018, , .		16
56	Normalization Benefits Microarray-Based Classification. Eurasip Journal on Bioinformatics and Systems Biology, 2006, 2006, 1-13.	1.4	14
57	Lung Nodule Malignancy Prediction in Sequential CT Scans: Summary of ISBI 2018 Challenge. IEEE Transactions on Medical Imaging, 2021, 40, 3748-3761.	8.9	13
58	Perfusion MR Imaging of Breast Cancer: Insights Using "Habitat Imaging". Radiology, 2018, 288, 36-37.	7.3	12
59	Habitats in DCE-MRI to Predict Clinically Significant Prostate Cancers. Tomography, 2019, 5, 68-76.	1.8	12
60	Application of image-based granulometry to siliceous and calcareous estuarine and marine sediments. Estuarine, Coastal and Shelf Science, 2003, 58, 227-239.	2.1	10
61	Morphological quantification of surface roughness. Optical Engineering, 2003, 42, 1795.	1.0	10
62	Repeatability of Quantitative Imaging Features in Prostate Magnetic Resonance Imaging. Frontiers in Oncology, 2020, 10, 551.	2.8	9
63	Radiological semantics discriminate clinically significant grade prostate cancer. Cancer Imaging, 2019, 19, 81.	2.8	7
64	MORPHOLOGICAL GRANULOMETRIC ANALYSIS OF SEDIMENT IMAGES. Image Analysis and Stereology, 2001, 20, 87.	0.9	7
65	Insight into redox-regulated gene networks in vascular cells. Bioinformation, 2007, 1, 379-383.	0.5	7
66	Improving malignancy prediction through feature selection informed by nodule size ranges in NLST. , 2016, 2016, 001939-1944.		5
67	MO-DE-207B-04: Impact of Reconstruction Field of View On Radiomics Features in Computed Tomography (CT) Using a Texture Phantom. Medical Physics, 2016, 43, 3705-3705.	3.0	5
68	Granulometric parametric estimation for the random Boolean model using optimal linear filters and optimal structuring elements. Pattern Recognition Letters, 2003, 24, 283-293.	4.2	4
69	Radiomics of lung cancer. Journal of Thoracic Oncology, 2016, 11, S5-S6.	1.1	4
70	Volume doubling time and radiomic features predict tumor behavior of screen-detected lung cancers. Cancer Biomarkers, 2022, 33, 489-501.	1.7	4
71	Identification of Pancreatic Cancer-Specific Cell-Surface Markers for Development of Targeting Ligands. Methods in Molecular Biology, 2010, 624, 195-210.	0.9	3
72	P1.01-041 Quantitative Imaging Features Predict Response of Immunotherapy in Non-Small Cell Lung Cancer Patients. Journal of Thoracic Oncology, 2017, 12, S474-S475.	1.1	3

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73	&lt;p&gt;Multi-Window CT Based Radiological Traits for Improving Early Detection in Lung Cancer Screening&lt;/p&gt;. Cancer Management and Research, 2020, Volume 12, 12225-12238.	1.9	3
74	Asymptotic joint normality of the granulometric moments. Pattern Recognition Letters, 2001, 22, 1537-1543.	4.2	2
75	Optimal linear granulometric estimation for random sets. Pattern Recognition, 2002, 35, 1315-1325.	8.1	2
76	A pilot study of radiologic measures of abdominal adiposity: weighty contributors to early pancreatic carcinogenesis worth evaluating?. Cancer Biology and Medicine, 2017, 14, 66-73.	3.0	2
77	Representation of Deep Features using Radiologist defined Semantic Features. , 2018, 2018, .		2
78	Semiautomated Measure of Abdominal Adiposity Using Computed Tomography Scan Analysis. Journal of Surgical Research, 2019, 237, 12-21.	1.6	2
79	Quantitative imaging features to predict cancer status in lung nodules. , 2016, , .		1
80	Diagnostic and predictive quantitative-imaging features in lung cancer screening. Journal of Thoracic Oncology, 2016, 11, S41-S42.	1.1	1
81	PUB063 Epidemiologic and Radiomic Analysis of Hyperprogressers of Lung Cancer Patients Treated with Immunotherapy. Journal of Thoracic Oncology, 2017, 12, S2386.	1.1	1
82	OA02.08 Peritumoral and Intratumoral Radiomic Features Identify Aggressive Screen-Detected Early-Stage Lung Cancers. Journal of Thoracic Oncology, 2019, 14, S1130.	1.1	1
83	Abstract 3250: Survival of patients with incident lung cancer following screening by computed tomography in the National Lung Screening Trial. , 2014, , .		1
84	<title>Random signal model for cDNA microarrays</title>. , 2001, 4266, 163.		0
85	Effect of normalization on microarray-based classification. , 2006, , .		0
86	siRNA screening: A process model to evaluate hit rate discovery. , 2008, , .		0
87	Change descriptors for determining nodule malignancy in national lung screening trial CT screening images. , 2016, , .		0
88	Performance comparison of quantitative semantic features and lung-RADS in the National Lung Screening Trial. , 2016, , .		0
89	P1.03-063 Quantitative Imaging Features Predict Incidence Lung Cancer in Low-Dose Computed Tomography (LDCT) Screening. Journal of Thoracic Oncology, 2017, 12, S582.	1.1	0
90	Abstract 2744: Loss of VAV3 expression as a novel biomarker and indicator of chemosensitivity in basal-like breast cancer. , 2010, , .		0

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91	Abstract P2-09-23: Investigating VAV3 Expression as a Novel Biomarker and Indicator of Chemosensitivity in Basal-Like Breast Cancer. , 2010, , .		0
92	SU-E-QI-17: Dependence of 3D/4D PET Quantitative Image Features On Noise. Medical Physics, 2014, 41, 380-380.	3.0	0
93	SU-E-QI-16: Reproducibility of Computed Tomography Quantitative Structural Features Using the FDA Thoracic Phantom Image Database. Medical Physics, 2014, 41, 380-380.	3.0	0
94	Abstract 3634: PET/CT imaging prediction of response to checkpoint blockade in advanced non-small cell lung cancer patients. , 2018, , .		0
95	Abstract B10: Radiomics signatures on the region defined by using multi-window CT to improve detection lung cancer screening. , 2018, , .		0