

# Balaji Ganeshan

## List of Publications by Year in descending order

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89  
papers

6,733  
citations

94269

37  
h-index

62479

80  
g-index

93  
all docs

93  
docs citations

93  
times ranked

6431  
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessment of tumor heterogeneity: an emerging imaging tool for clinical practice?. Insights Into Imaging, 2012, 3, 573-589.	1.6	738
2	Tumour heterogeneity in non-small cell lung carcinoma assessed by CT texture analysis: a potential marker of survival. European Radiology, 2012, 22, 796-802.	2.3	451
3	Assessment of Primary Colorectal Cancer Heterogeneity by Using Whole-Tumor Texture Analysis: Contrast-enhanced CT Texture as a Biomarker of 5-year Survival. Radiology, 2013, 266, 177-184.	3.6	384
4	Non-“Small Cell Lung Cancer: Histopathologic Correlates for Texture Parameters at CT. Radiology, 2013, 266, 326-336.	3.6	384
5	Assessment of Response to Tyrosine Kinase Inhibitors in Metastatic Renal Cell Cancer: CT Texture as a Predictive Biomarker. Radiology, 2011, 261, 165-171.	3.6	328
6	Assessment of tumor heterogeneity by CT texture analysis: Can the largest cross-sectional area be used as an alternative to whole tumor analysis?. European Journal of Radiology, 2013, 82, 342-348.	1.2	323
7	Quantifying tumour heterogeneity with CT. Cancer Imaging, 2013, 13, 140-149.	1.2	304
8	Texture analysis of non-small cell lung cancer on unenhanced computed tomography: initial evidence for a relationship with tumour glucose metabolism and stage. Cancer Imaging, 2010, 10, 137-143.	1.2	278
9	CT texture analysis using the filtration-histogram method: what do the measurements mean?. Cancer Imaging, 2013, 13, 400-406.	1.2	253
10	Colorectal Cancer: Texture Analysis of Portal Phase Hepatic CT Images as a Potential Marker of Survival. Radiology, 2009, 250, 444-452.	3.6	229
11	Locally Advanced Squamous Cell Carcinoma of the Head and Neck: CT Texture and Histogram Analysis Allow Independent Prediction of Overall Survival in Patients Treated with Induction Chemotherapy. Radiology, 2013, 269, 801-809.	3.6	186
12	Primary Esophageal Cancer: Heterogeneity as Potential Prognostic Biomarker in Patients Treated with Definitive Chemotherapy and Radiation Therapy. Radiology, 2014, 270, 141-148.	3.6	184
13	Tumor Heterogeneity and Permeability as Measured on the CT Component of PET/CT Predict Survival in Patients with Non-“Small Cell Lung Cancer. Clinical Cancer Research, 2013, 19, 3591-3599.	3.2	182
14	Texture Analysis as Imaging Biomarker of Tumoral Response to Neoadjuvant Chemoradiotherapy in Rectal Cancer Patients Studied with 3-T Magnetic Resonance. Investigative Radiology, 2015, 50, 239-245.	3.5	169
15	Diagnostic performance of texture analysis on MRI in grading cerebral gliomas. European Journal of Radiology, 2016, 85, 824-829.	1.2	140
16	Texture analysis in non-contrast enhanced CT: Impact of malignancy on texture in apparently disease-free areas of the liver. European Journal of Radiology, 2009, 70, 101-110.	1.2	119
17	Changes in Primary Breast Cancer Heterogeneity May Augment Midtreatment MR Imaging Assessment of Response to Neoadjuvant Chemotherapy. Radiology, 2014, 272, 100-112.	3.6	113
18	Noninvasive Image Texture Analysis Differentiates K-ras Mutation from Pan-Wildtype NSCLC and Is Prognostic. PLoS ONE, 2014, 9, e100244.	1.1	109

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19	Preoperative tumor texture analysis on MRI predicts high-risk disease and reduced survival in endometrial cancer. <i>Journal of Magnetic Resonance Imaging</i> , 2018, 48, 1637-1647.	1.9	91
20	CT texture analysis can help differentiate between malignant and benign lymph nodes in the mediastinum in patients suspected for lung cancer. <i>Acta Radiologica</i> , 2016, 57, 669-676.	0.5	82
21	Measurements of heterogeneity in gliomas on computed tomography relationship to tumour grade. <i>Journal of Neuro-Oncology</i> , 2013, 111, 213-219.	1.4	75
22	CT texture analysis: a potential tool for prediction of survival in patients with metastatic clear cell carcinoma treated with sunitinib. <i>Cancer Imaging</i> , 2017, 17, 4.	1.2	75
23	Multifunctional Imaging Signature for V-KI-RAS2 Kirsten Rat Sarcoma Viral Oncogene Homolog (KRAS) Mutations in Colorectal Cancer. <i>Journal of Nuclear Medicine</i> , 2014, 55, 386-391.	2.8	74
24	Textural analysis of multiparametric MRI detects transition zone prostate cancer. <i>European Radiology</i> , 2017, 27, 2348-2358.	2.3	74
25	Texture analysis of the liver at MDCT for assessing hepatic fibrosis. <i>Abdominal Radiology</i> , 2017, 42, 2069-2078.	1.0	72
26	Hepatic Enhancement in Colorectal Cancer. <i>Academic Radiology</i> , 2007, 14, 1520-1530.	1.3	70
27	Dynamic Contrast-Enhanced Texture Analysis of the Liver. <i>Investigative Radiology</i> , 2011, 46, 160-168.	3.5	68
28	Performance of diffusion-weighted imaging, perfusion imaging, and texture analysis in predicting tumoral response to neoadjuvant chemoradiotherapy in rectal cancer patients studied with 3T MR: initial experience. <i>Abdominal Radiology</i> , 2016, 41, 1728-1735.	1.0	67
29	In Search of Biologic Correlates for Liver Texture on Portal-Phase CT. <i>Academic Radiology</i> , 2007, 14, 1058-1068.	1.3	60
30	Pulmonary 18F-FDG uptake helps refine current risk stratification in idiopathic pulmonary fibrosis (IPF). <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2018, 45, 806-815.	3.3	60
31	Predicting Overall Survival in Patients With Metastatic Melanoma on Antiangiogenic Therapy and RECIST Stable Disease on Initial Posttherapy Images Using CT Texture Analysis. <i>American Journal of Roentgenology</i> , 2015, 205, W283-W293.	1.0	51
32	Role of MR texture analysis in histological subtyping and grading of renal cell carcinoma: a preliminary study. <i>Abdominal Radiology</i> , 2019, 44, 3336-3349.	1.0	51
33	Texture analysis on diffusion tensor imaging: discriminating glioblastoma from single brain metastasis. <i>Acta Radiologica</i> , 2019, 60, 356-366.	0.5	48
34	Magnetic Resonance Texture Analysis in Identifying Complete Pathological Response to Neoadjuvant Treatment in Locally Advanced Rectal Cancer. <i>Diseases of the Colon and Rectum</i> , 2019, 62, 163-170.	0.7	48
35	Texture Analysis of Non-Contrast-Enhanced Computed Tomography for Assessing Angiogenesis and Survival of Soft Tissue Sarcoma. <i>Journal of Computer Assisted Tomography</i> , 2015, 39, 607-612.	0.5	45
36	Hepatocellular Carcinoma: Texture Analysis of Preoperative Computed Tomography Images Can Provide Markers of Tumor Grade and Disease-Free Survival. <i>Korean Journal of Radiology</i> , 2019, 20, 569.	1.5	43

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37	CT signal heterogeneity of abdominal aortic aneurysm as a possible predictive biomarker for expansion. <i>Atherosclerosis</i> , 2014, 233, 510-517.	0.4	40
38	MRI texture analysis (MRTA) of T2-weighted images in Crohn's disease may provide information on histological and MRI disease activity in patients undergoing ileal resection. <i>European Radiology</i> , 2017, 27, 589-597.	2.3	35
39	Abnormalities in fronto-striatal connectivity within language networks relate to differences in grey-matter heterogeneity in Asperger syndrome. <i>NeuroImage: Clinical</i> , 2013, 2, 716-726.	1.4	34
40	CT texture analysis as predictive factor in metastatic lung adenocarcinoma treated with tyrosine kinase inhibitors (TKIs). <i>European Journal of Radiology</i> , 2018, 109, 130-135.	1.2	33
41	Grey-matter texture abnormalities and reduced hippocampal volume are distinguishing features of schizophrenia. <i>Psychiatry Research - Neuroimaging</i> , 2014, 223, 179-186.	0.9	30
42	Filtration-histogram based magnetic resonance texture analysis (MRTA) for glioma IDH and 1p19q genotyping. <i>European Journal of Radiology</i> , 2019, 113, 116-123.	1.2	30
43	Biometric iris recognition system using a fast and robust iris localization and alignment procedure. <i>Optics and Lasers in Engineering</i> , 2006, 44, 1-24.	2.0	29
44	Three-Dimensional Selective-Scale Texture Analysis of Computed Tomography Pulmonary Angiograms. <i>Investigative Radiology</i> , 2008, 43, 382-394.	3.5	28
45	Three-dimensional textural analysis of brain images reveals distributed grey-matter abnormalities in schizophrenia. <i>European Radiology</i> , 2010, 20, 941-948.	2.3	27
46	Mean entropy predicts implantable cardioverter-defibrillator therapy using cardiac magnetic resonance texture analysis of scar heterogeneity. <i>Heart Rhythm</i> , 2019, 16, 1242-1250.	0.3	24
47	Radiomics-Based Texture Analysis of 68Ga-DOTATATE Positron Emission Tomography and Computed Tomography Images as a Prognostic Biomarker in Adults With Neuroendocrine Cancers Treated With 177Lu-DOTATATE. <i>Frontiers in Oncology</i> , 2021, 11, 686235.	1.3	22
48	Pilot study to differentiate lipoma from atypical lipomatous tumour/well-differentiated liposarcoma using MR radiomics-based texture analysis. <i>Skeletal Radiology</i> , 2020, 49, 1719-1729.	1.2	21
49	Tumor radiomic features complement clinico-radiological factors in predicting long-term local control and laryngectomy free survival in locally advanced laryngo-pharyngeal cancers. <i>British Journal of Radiology</i> , 2020, 93, 20190857.	1.0	21
50	Chest CT texture-based radiomics analysis in differentiating COVID-19 from other interstitial pneumonia. <i>Radiologia Medica</i> , 2021, 126, 1415-1424.	4.7	20
51	Synergistic application of pulmonary 18F-FDG PET/HRCT and computer-based CT analysis with conventional severity measures to refine current risk stratification in idiopathic pulmonary fibrosis (IPF). <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2019, 46, 2023-2031.	3.3	19
52	MR texture analysis in differentiating renal cell carcinoma from lipid-poor angiomyolipoma and oncocytoma. <i>British Journal of Radiology</i> , 2020, 93, 20200569.	1.0	19
53	CT Texture Analysis of Ex Vivo Renal Stones Predicts Ease of Fragmentation with Shockwave Lithotripsy. <i>Journal of Endourology</i> , 2017, 31, 694-700.	1.1	16
54	Predicting outcome in childhood diffuse midline gliomas using magnetic resonance imaging based texture analysis. <i>Journal of Neuroradiology</i> , 2021, 48, 243-247.	0.6	16

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55	CT texture-based radiomics analysis of carotid arteries identifies vulnerable patients: a preliminary outcome study. <i>Neuroradiology</i> , 2021, 63, 1043-1052.	1.1	16
56	Exploring CT Texture Parameters as Predictive and Response Imaging Biomarkers of Survival in Patients With Metastatic Melanoma Treated With PD-1 Inhibitor Nivolumab: A Pilot Study Using a Delta-Radiomics Approach. <i>Frontiers in Oncology</i> , 2021, 11, 704607.	1.3	16
57	MRI texture analysis parameters of contrast-enhanced T1-weighted images of Crohn's disease differ according to the presence or absence of histological markers of hypoxia and angiogenesis. <i>Abdominal Radiology</i> , 2016, 41, 1261-1269.	1.0	15
58	Evaluation of the Impact of Iterative Reconstruction Algorithms on Computed Tomography Texture Features of the Liver Parenchyma Using the Filtration-Histogram Method. <i>Korean Journal of Radiology</i> , 2019, 20, 558.	1.5	14
59	CMR myocardial texture analysis tracks different etiologies of left ventricular hypertrophy. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 18, O82.	1.6	12
60	Metastases or benign adrenal lesions in patients with histopathological verification of lung cancer: Can CT texture analysis distinguish?. <i>European Journal of Radiology</i> , 2021, 138, 109664.	1.2	12
61	Prognostic and predictive value of histogram analysis in patients with non-small cell lung cancer refractory to platinum treated by nivolumab: A multicentre retrospective study. <i>European Journal of Radiology</i> , 2019, 118, 251-256.	1.2	11
62	The clinical utility of prostate cancer heterogeneity using texture analysis of multiparametric MRI. <i>International Urology and Nephrology</i> , 2019, 51, 817-824.	0.6	11
63	Radiomic Analysis of MRI Images is Instrumental to the Stratification of Ovarian Cysts. <i>Journal of Personalized Medicine</i> , 2020, 10, 127.	1.1	11
64	Heterogeneity of Focal Breast Lesions and Surrounding Tissue Assessed by Mammographic Texture Analysis: Preliminary Evidence of an Association with Tumor Invasion and Estrogen Receptor Status. <i>Frontiers in Oncology</i> , 2011, 1, 33.	1.3	10
65	FDG-PET/CT in colorectal cancer: potential for vascular-metabolic imaging to provide markers of prognosis. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021, 49, 371-384.	3.3	10
66	Virtual monoenergetic imaging in rapid kVp-switching dual-energy CT (DECT) of the abdomen: impact on CT texture analysis. <i>Abdominal Radiology</i> , 2018, 43, 2693-2701.	1.0	9
67	Evolution of <sup>18</sup> F-FDG PET/CT Findings in Patients After COVID-19: An Initial Investigation. <i>Journal of Nuclear Medicine</i> , 2022, 63, 270-273.	2.8	9
68	Effectiveness of high dose spinal cord stimulation for non-surgical intractable lumbar radiculopathy - HIDENS Study. <i>Pain Practice</i> , 2022, 22, 233-247.	0.9	9
69	Magnetic resonance texture analysis utility in differentiating intraparenchymal neurosarcoidosis from primary central nervous system lymphoma: a preliminary analysis. <i>Neuroradiology Journal</i> , 2019, 32, 203-209.	0.6	8
70	MR Imaging Texture Analysis in the Abdomen and Pelvis. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2020, 28, 447-456.	0.6	8
71	Using texture analysis in the development of a potential radiomic signature for early identification of hepatic metastasis in colorectal cancer. <i>European Journal of Radiology Open</i> , 2022, 9, 100415.	0.7	8
72	In Vivo Imaging of Tau Pathology Using Magnetic Resonance Imaging Textural Analysis. <i>Frontiers in Neuroscience</i> , 2017, 11, 599.	1.4	7

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73	Towards Detecting High-Uptake Lesions from Lung CT Scans Using Deep Learning. Lecture Notes in Computer Science, 2017, , 310-320.	1.0	6
74	Measurement of hypoxia in the lung in IPF: an F-MISO PET CT study. European Respiratory Journal, 2021, 58, 2004584.	3.1	6
75	Filtration-Histogram Based Magnetic Resonance Texture Analysis (MRTA) for the Distinction of Primary Central Nervous System Lymphoma and Glioblastoma. Journal of Personalized Medicine, 2021, 11, 876.	1.1	6
76	Equilibrium CT Texture Analysis for the Evaluation of Hepatic Fibrosis: Preliminary Evaluation against Histopathology and Extracellular Volume Fraction. Journal of Personalized Medicine, 2020, 10, 46.	1.1	5
77	Texture Analysis of Fractional Water Content Images Acquired during PET/MRI: Initial Evidence for an Association with Total Lesion Glycolysis, Survival and Gene Mutation Profile in Primary Colorectal Cancer. Cancers, 2021, 13, 2715.	1.7	5
78	Comparative Effectiveness of Tumor Response Assessment Methods: Standard of Care Versus Computer-Assisted Response Evaluation. JCO Clinical Cancer Informatics, 2017, 1, 1-16.	1.0	3
79	High mean entropy calculated from cardiac MRI texture analysis is associated with antitachycardia pacing failure. PACE - Pacing and Clinical Electrophysiology, 2020, 43, 737-745.	0.5	3
80	Prediction of Inflammatory Breast Cancer Survival Outcomes Using Computed Tomography-Based Texture Analysis. Frontiers in Bioengineering and Biotechnology, 2021, 9, 695305.	2.0	3
81	Filtration-histogram based texture analysis and CALIPER based pattern analysis as quantitative CT techniques in idiopathic pulmonary fibrosis: head-to-head comparison. British Journal of Radiology, 2022, 95, 20210957.	1.0	3
82	CT textural analysis of abdominal aortic aneurysms as a biomarker for aneurysm growth. Lancet, The, 2014, 383, S87.	6.3	1
83	Retrospective CT/MRI Texture Analysis of Rapidly Progressive Hepatocellular Carcinoma. Journal of Personalized Medicine, 2020, 10, 136.	1.1	1
84	Maximum Standard Unit Value (SUVmax) is an indicator for overall survival in lung cancer. , 2019, , .		1
85	Three dimensional texture analysis of multidetector computed tomography images of the liver. , 2006, 6245, 202.		0
86	O4-02-04: BRAIN TEXTURE ANALYSIS AS A BIOMARKER FOR TAUOPATHY IN A TRANSGENIC MOUSE MODEL OF ALZHEIMER'S. , 2014, 10, P252-P253.		0
87	CT texture analysis as a prognostic marker in metastatic colorectal cancer patients treated with bevacizumab. Cancer Imaging, 2015, 15, .	1.2	0
88	PD08-04 WHICH STONES WILL FAIL SHOCKWAVE LITHOTRIPSY TREATMENT? ANALYSIS OF PATIENT AND STONE FACTORS IN A PREDICTIVE MODEL. Journal of Urology, 2018, 199, .	0.2	0
89	DIPG-37. PREDICTING OUTCOME IN CHILDHOOD DIFFUSE MIDLINE GLIOMAS USING MAGNETIC RESONANCE IMAGING BASED TEXTURE ANALYSIS. Neuro-Oncology, 2020, 22, iii294-iii294.	0.6	0