

# Despina Kontos

## List of Publications by Year in descending order

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Version: 2024-02-01

84  
papers

2,678  
citations

201385

27  
h-index

197535

49  
g-index

87  
all docs

87  
docs citations

87  
times ranked

2812  
citing authors

#	ARTICLE	IF	CITATIONS
1	Screening Outcomes Following Implementation of Digital Breast Tomosynthesis in a General-Population Screening Program. <i>Journal of the National Cancer Institute</i> , 2014, 106, .	3.0	158
2	Estimation of breast percent density in raw and processed full field digital mammography images via adaptive fuzzy c-means clustering and support vector machine segmentation. <i>Medical Physics</i> , 2012, 39, 4903-4917.	1.6	149
3	Variation in Mammographic Breast Density Assessments Among Radiologists in Clinical Practice. <i>Annals of Internal Medicine</i> , 2016, 165, 457.	2.0	148
4	Identification of Intrinsic Imaging Phenotypes for Breast Cancer Tumors: Preliminary Associations with Gene Expression Profiles. <i>Radiology</i> , 2014, 272, 374-384.	3.6	138
5	The use of the Gail model, body mass index and SNPs to predict breast cancer among women with abnormal (BI-RADS 4) mammograms. <i>Breast Cancer Research</i> , 2015, 17, 1.	2.2	124
6	Beyond breast density: a review on the advancing role of parenchymal texture analysis in breast cancer risk assessment. <i>Breast Cancer Research</i> , 2016, 18, 91.	2.2	117
7	Cancer imaging phenomics toolkit: quantitative imaging analytics for precision diagnostics and predictive modeling of clinical outcome. <i>Journal of Medical Imaging</i> , 2018, 5, 1.	0.8	110
8	Parenchymal texture analysis in digital mammography: A fully automated pipeline for breast cancer risk assessment. <i>Medical Physics</i> , 2015, 42, 4149-4160.	1.6	91
9	Role of texture analysis in breast MRI as a cancer biomarker: A review. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 49, 927-938.	1.9	89
10	Parenchymal Texture Analysis in Digital Breast Tomosynthesis for Breast Cancer Risk Estimation. <i>Academic Radiology</i> , 2009, 16, 283-298.	1.3	71
11	Preliminary evaluation of the publicly available Laboratory for Breast Radiodensity Assessment (LIBRA) software tool: comparison of fully automated area and volumetric density measures in a case-control study with digital mammography. <i>Breast Cancer Research</i> , 2015, 17, 117.	2.2	68
12	Background parenchymal enhancement on breast MRI: A comprehensive review. <i>Journal of Magnetic Resonance Imaging</i> , 2020, 51, 43-61.	1.9	68
13	Automated fibroglandular tissue segmentation and volumetric density estimation in breast MRI using an atlas-aided fuzzy C-means method. <i>Medical Physics</i> , 2013, 40, 122302.	1.6	67
14	Automated chest wall line detection for whole-breast segmentation in sagittal breast MR images. <i>Medical Physics</i> , 2013, 40, 042301.	1.6	64
15	Radiomic Phenotypes of Mammographic Parenchymal Complexity: Toward Augmenting Breast Density in Breast Cancer Risk Assessment. <i>Radiology</i> , 2019, 290, 41-49.	3.6	63
16	Racial Differences in Quantitative Measures of Area and Volumetric Breast Density. <i>Journal of the National Cancer Institute</i> , 2016, 108, djw104.	3.0	60
17	Imaging Phenotypes of Breast Cancer Heterogeneity in Preoperative Breast Dynamic Contrast Enhanced Magnetic Resonance Imaging (DCE-MRI) Scans Predict 10-Year Recurrence. <i>Clinical Cancer Research</i> , 2020, 26, 862-869.	3.2	50
18	Quantitative assessment of background parenchymal enhancement in breast MRI predicts response to risk-reducing salpingo-oophorectomy: preliminary evaluation in a cohort of BRCA1/2 mutation carriers. <i>Breast Cancer Research</i> , 2015, 17, 67.	2.2	49

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19	Breast DCE-MRI Kinetic Heterogeneity Tumor Markers: Preliminary Associations With Neoadjuvant Chemotherapy Response. <i>Translational Oncology</i> , 2015, 8, 154-162.	1.7	48
20	Pharmacokinetic Tumor Heterogeneity as a Prognostic Biomarker for Classifying Breast Cancer Recurrence Risk. <i>IEEE Transactions on Biomedical Engineering</i> , 2015, 62, 1585-1594.	2.5	47
21	Relationship of established risk factors with breast cancer subtypes. <i>Cancer Medicine</i> , 2021, 10, 6456-6467.	1.3	45
22	Prediction of Treatment Response to Neoadjuvant Chemotherapy for Breast Cancer via Early Changes in Tumor Heterogeneity Captured by DCE-MRI Registration. <i>Scientific Reports</i> , 2019, 9, 12114.	1.6	40
23	Breast MRI Fibroglandular Volume and Parenchymal Enhancement in BRCA1 and BRCA2 Mutation Carriers Before and Immediately After Risk-Reducing Salpingo-Oophorectomy. <i>American Journal of Roentgenology</i> , 2015, 204, 669-673.	1.0	34
24	Dose-response effects of aerobic exercise on estrogen among women at high risk for breast cancer: a randomized controlled trial. <i>Breast Cancer Research and Treatment</i> , 2015, 154, 309-318.	1.1	34
25	The Cancer Imaging Phenomics Toolkit (CaPTk): Technical Overview. <i>Lecture Notes in Computer Science</i> , 2020, 11993, 380-394.	1.0	34
26	Fully Automated Quantitative Estimation of Volumetric Breast Density from Digital Breast Tomosynthesis Images: Preliminary Results and Comparison with Digital Mammography and MR Imaging. <i>Radiology</i> , 2016, 279, 65-74.	3.6	32
27	Artificial intelligence in mammographic phenotyping of breast cancer risk: a narrative review. <i>Breast Cancer Research</i> , 2022, 24, 14.	2.2	31
28	Deformable registration for quantifying longitudinal tumor changes during neoadjuvant chemotherapy. <i>Magnetic Resonance in Medicine</i> , 2015, 73, 2343-2356.	1.9	30
29	Deep-LIBRA: An artificial-intelligence method for robust quantification of breast density with independent validation in breast cancer risk assessment. <i>Medical Image Analysis</i> , 2021, 73, 102138.	7.0	29
30	Breast parenchymal patterns in processed versus raw digital mammograms: A large population study toward assessing differences in quantitative measures across image representations. <i>Medical Physics</i> , 2016, 43, 5862-5877.	1.6	27
31	Using Convolutional Neural Networks for Enhanced Capture of Breast Parenchymal Complexity Patterns Associated with Breast Cancer Risk. <i>Academic Radiology</i> , 2018, 25, 977-984.	1.3	26
32	Effect of Mammographic Screening Modality on Breast Density Assessment: Digital Mammography versus Digital Breast Tomosynthesis. <i>Radiology</i> , 2019, 291, 320-327.	3.6	26
33	Cancer Imaging Phenomics via CaPTk: Multi-Institutional Prediction of Progression-Free Survival and Pattern of Recurrence in Glioblastoma. <i>JCO Clinical Cancer Informatics</i> , 2020, 4, 234-244.	1.0	26
34	Reader Variability in Breast Density Estimation from Full-Field Digital Mammograms. <i>Academic Radiology</i> , 2013, 20, 560-568.	1.3	25
35	Generalized ComBat harmonization methods for radiomic features with multi-modal distributions and multiple batch effects. <i>Scientific Reports</i> , 2022, 12, 4493.	1.6	25
36	Beyond BI-RADS Density: A Call for Quantification in the Breast Imaging Clinic. <i>Radiology</i> , 2018, 286, 401-404.	3.6	24

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37	Fully Automated Volumetric Breast Density Estimation from Digital Breast Tomosynthesis. <i>Radiology</i> , 2021, 301, 561-568.	3.6	22
38	Evaluation of LIBRA Software for Fully Automated Mammographic Density Assessment in Breast Cancer Risk Prediction. <i>Radiology</i> , 2020, 296, 24-31.	3.6	21
39	Is It Time to Get Rid of Black Boxes and Cultivate Trust in AI?. <i>Radiology: Artificial Intelligence</i> , 2020, 2, e200088.	3.0	21
40	Parenchymal texture analysis in digital mammography: robust texture feature identification and equivalence across devices. <i>Journal of Medical Imaging</i> , 2015, 2, 024501.	0.8	19
41	Women In Steady Exercise Research (WISER) Sister: Study design and methods. <i>Contemporary Clinical Trials</i> , 2015, 41, 17-30.	0.8	19
42	Agreement between Breast Percentage Density Estimations from Standard-Dose versus Synthetic Digital Mammograms: Results from a Large Screening Cohort Using Automated Measures. <i>Radiology</i> , 2017, 283, 673-680.	3.6	17
43	Breast MRI during Neoadjuvant Chemotherapy: Lack of Background Parenchymal Enhancement Suppression and Inferior Treatment Response. <i>Radiology</i> , 2021, 301, 295-308.	3.6	17
44	Aspirin use is associated with lower mammographic density in a large screening cohort. <i>Breast Cancer Research and Treatment</i> , 2017, 162, 419-425.	1.1	16
45	Three-Dimensional Whole Breast Segmentation in Sagittal and Axial Breast MRI With Dense Depth Field Modeling and Localized Self-Adaptation for Chest-Wall Line Detection. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 1567-1579.	2.5	16
46	Associations between breast density and a panel of single nucleotide polymorphisms linked to breast cancer risk: a cohort study with digital mammography. <i>BMC Cancer</i> , 2015, 15, 143.	1.1	15
47	Mammographic breast density decreases after bariatric surgery. <i>Breast Cancer Research and Treatment</i> , 2017, 165, 565-572.	1.1	14
48	Measurement challenge: protocol for international case-control comparison of mammographic measures that predict breast cancer risk. <i>BMJ Open</i> , 2019, 9, e031041.	0.8	14
49	Combining radiomic phenotypes of non-small cell lung cancer with liquid biopsy data may improve prediction of response to EGFR inhibitors. <i>Scientific Reports</i> , 2021, 11, 9984.	1.6	13
50	Breast density and parenchymal texture measures as potential risk factors for estrogen-receptor positive breast cancer. <i>Proceedings of SPIE</i> , 2014, 9035, 90351D.	0.8	12
51	Risk factors for breast cancer subtypes among Black women undergoing screening mammography. <i>Breast Cancer Research and Treatment</i> , 2021, 189, 827-835.	1.1	12
52	Special Section Guest Editorial: Radiomics and Deep Learning. <i>Journal of Medical Imaging</i> , 2018, 4, 1.	0.8	12
53	Heterogeneity Wavelet Kinetics from DCE-MRI for Classifying Gene Expression Based Breast Cancer Recurrence Risk. <i>Lecture Notes in Computer Science</i> , 2013, 16, 295-302.	1.0	11
54	Fully automatic quantification of fibroglandular tissue and background parenchymal enhancement with accurate implementation for axial and sagittal breast MRI protocols. <i>Medical Physics</i> , 2021, 48, 238-252.	1.6	11

#	ARTICLE	IF	CITATIONS
55	Validation of Breast Cancer Risk Models by Race/Ethnicity, Family History and Molecular Subtypes. <i>Cancers</i> , 2022, 14, 45.	1.7	11
56	Incorporating Breast Anatomy in Computational Phenotyping of Mammographic Parenchymal Patterns for Breast Cancer Risk Estimation. <i>Scientific Reports</i> , 2018, 8, 17489.	1.6	10
57	Association of breast cancer with MRI background parenchymal enhancement: the IMAGINE case-control study. <i>Breast Cancer Research</i> , 2020, 22, 138.	2.2	10
58	Machine learning highlights the deficiency of conventional dosimetric constraints for prevention of high-grade radiation esophagitis in non-small cell lung cancer treated with chemoradiation. <i>Clinical and Translational Radiation Oncology</i> , 2020, 22, 69-75.	0.9	9
59	A Multichannel Markov Random Field Approach for Automated Segmentation of Breast Cancer Tumor in DCE-MRI Data Using Kinetic Observation Model. <i>Lecture Notes in Computer Science</i> , 2011, 14, 546-553.	1.0	9
60	Can AI Help Make Screening Mammography "Lean"? <i>Radiology</i> , 2019, 293, 47-48.	3.6	8
61	Risk Assessment in Population-Based Breast Cancer Screening. <i>Journal of Clinical Oncology</i> , 2022, 40, 2279-2280.	0.8	8
62	Impact of Interobserver Variability in Manual Segmentation of Non-Small Cell Lung Cancer (NSCLC) Applying Low-Rank Radiomic Representation on Computed Tomography. <i>Cancers</i> , 2021, 13, 5985.	1.7	7
63	Radiomic Phenotypes for Improving Early Prediction of Survival in Stage III Non-Small Cell Lung Cancer Adenocarcinoma after Chemoradiation. <i>Cancers</i> , 2022, 14, 700.	1.7	7
64	Functional 4-D clustering for characterizing intratumor heterogeneity in dynamic imaging: evaluation in FDG PET as a prognostic biomarker for breast cancer. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021, 48, 3990-4001.	3.3	6
65	Development of a robust radiomic biomarker of progression-free survival in advanced non-small cell lung cancer patients treated with first-line immunotherapy. <i>Scientific Reports</i> , 2022, 12, .	1.6	6
66	Radiogenomics in brain, breast, and lung cancer: opportunities and challenges. <i>Journal of Medical Imaging</i> , 2021, 8, 031907.	0.8	5
67	Interactive Machine Learning-Based Multi-Label Segmentation of Solid Tumors and Organs. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 7488.	1.3	5
68	Association between Breast Parenchymal Complexity and False-Positive Recall From Digital Mammography Versus Breast Tomosynthesis. <i>Academic Radiology</i> , 2016, 23, 977-986.	1.3	4
69	Incorporating Robustness to Imaging Physics into Radiomic Feature Selection for Breast Cancer Risk Estimation. <i>Cancers</i> , 2021, 13, 5497.	1.7	4
70	Segmentation of anatomical branching structures based on texture features and graph cut. , 2011, , .		3
71	O-Net: An Overall Convolutional Network for Segmentation Tasks. <i>Lecture Notes in Computer Science</i> , 2020, 12436, 199-209.	1.0	3
72	Mammographic phenotypes of breast cancer risk driven by breast anatomy. <i>Proceedings of SPIE</i> , 2017, , .	0.8	2

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73	Lifestyle, Behavioral, and Dietary Risk Factors in Relation to Mammographic Breast Density in Women at High Risk for Breast Cancer. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2021, 30, 936-944.	1.1	2
74	Racial Disparities in 30-Day Outcomes Following Index Admission for COVID-19. <i>Frontiers in Medicine</i> , 2021, 8, 750650.	1.2	2
75	Assessment of CT image reconstruction parameters on radiomic features in a lung cancer screening cohort: the PROSPR study. , 2020, , .		2
76	Impact of deformable registration methods for prediction of recurrence free survival response to neoadjuvant chemotherapy in breast cancer: Results from the ISPY 1/ACRIN 6657 trial. <i>Translational Oncology</i> , 2022, 20, 101411.	1.7	2
77	Quantification of tumor changes during neoadjuvant chemotherapy with longitudinal breast DCE-MRI registration. , 2015, , .		1
78	The Impact of Acquisition Dose on Quantitative Breast Density Estimation with Digital Mammography: Results from ACRIN PA 4006. <i>Radiology</i> , 2016, 280, 693-700.	3.6	1
79	Convolutional neural network approach for enhanced capture of breast parenchymal complexity patterns associated with breast cancer risk. <i>Proceedings of SPIE</i> , 2017, , .	0.8	1
80	The influence of inflammation on mammographic breast density in women at increased risk of breast cancer.. <i>Journal of Clinical Oncology</i> , 2015, 33, 1566-1566.	0.8	1
81	Breast Cancer Risk Estimation Using Parenchymal Texture Analysis in Digital Breast Tomosynthesis. , 2010, , .		0
82	Three-dimensional whole breast segmentation in sagittal MR images with dense depth field modeling and localized self-adaptation. , 2017, , .		0
83	Special Section Guest Editorial: Radiogenomics in Prognosis and Treatment. <i>Journal of Medical Imaging</i> , 2021, 8, 031901.	0.8	0
84	Resampling and harmonization for mitigation of heterogeneity in imaging parameters: a comparative study. , 2022, , .		0