

# Martin ValliÃres

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

4,592  
citations

304743

22  
h-index

345221

36  
g-index

38  
all docs

38  
docs citations

38  
times ranked

5525  
citing authors

#	ARTICLE	IF	CITATIONS
1	Head and neck tumor segmentation in PET/CT: The HECKTOR challenge. <i>Medical Image Analysis</i> , 2022, 77, 102336.	11.6	114
2	Cleaning radiotherapy contours for radiomics studies, is it worth it? A head and neck cancer study. <i>Clinical and Translational Radiation Oncology</i> , 2022, 33, 153-158.	1.7	4
3	Overview of the HECKTOR Challenge at MICCAI 2021: Automatic Head and Neck Tumor Segmentation and Outcome Prediction in PET/CT Images. <i>Lecture Notes in Computer Science</i> , 2022, , 1-37.	1.3	39
4	Radiomics-Based Machine Learning for Outcome Prediction in a Multicenter Phase II Study of Programmed Death-Ligand 1 Inhibition Immunotherapy for Glioblastoma. <i>American Journal of Neuroradiology</i> , 2022, 43, 675-681.	2.4	12
5	Development and Validation of Multiparametric MRIâ€“based Radiomics Models for Preoperative Risk Stratification of Endometrial Cancer. <i>Radiology</i> , 2022, 305, 375-386.	7.3	30
6	Development of patient-specific 3D models from histopathological samples for applications in radiation therapy. <i>Physica Medica</i> , 2021, 81, 162-169.	0.7	2
7	Machine Learning-Based Prediction of COVID-19 Severity and Progression to Critical Illness Using CT Imaging and Clinical Data. <i>Korean Journal of Radiology</i> , 2021, 22, 1213.	3.4	20
8	Overview of the HECKTOR Challenge at MICCAI 2020: Automatic Head and Neck Tumor Segmentation in PET/CT. <i>Lecture Notes in Computer Science</i> , 2021, , 1-21.	1.3	49
9	FDG-PET/CT Radiomics Models for The Early Prediction of Locoregional Recurrence in Head and Neck Cancer. <i>Current Medical Imaging</i> , 2021, 17, 374-383.	0.8	2
10	An artificial intelligence framework integrating longitudinal electronic health records with real-world data enables continuous pan-cancer prognostication. <i>Nature Cancer</i> , 2021, 2, 709-722.	13.2	41
11	Investigating the impact of the CT Hounsfield unit range on radiomic feature stability using dual energy CT data. <i>Physica Medica</i> , 2021, 88, 272-277.	0.7	6
12	Patient-specific microdosimetry: a proof of concept. <i>Physics in Medicine and Biology</i> , 2021, 66, 185011.	3.0	1
13	Machine and deep learning methods for radiomics. <i>Medical Physics</i> , 2020, 47, e185-e202.	3.0	232
14	The Image Biomarker Standardization Initiative: Standardized Quantitative Radiomics for High-Throughput Image-based Phenotyping. <i>Radiology</i> , 2020, 295, 328-338.	7.3	1,869
15	Deep Learning Based on MRI for Differentiation of Lowâ€“and Highâ€“Grade in Lowâ€“Stage Renal Cell Carcinoma. <i>Journal of Magnetic Resonance Imaging</i> , 2020, 52, 1542-1549.	3.4	31
16	Overlooked pitfalls in multi-class machine learning classification in radiation oncology and how to avoid them. <i>Physica Medica</i> , 2020, 70, 96-100.	0.7	2
17	Deep Learning to Distinguish Benign from Malignant Renal Lesions Based on Routine MR Imaging. <i>Clinical Cancer Research</i> , 2020, 26, 1944-1952.	7.0	86
18	External Validation of an MRI-Derived Radiomics Model to Predict Biochemical Recurrence after Surgery for High-Risk Prostate Cancer. <i>Cancers</i> , 2020, 12, 814.	3.7	50

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19	Magnetic Resonance Imaging Texture Analysis Predicts Recurrence in Patients with Nasopharyngeal Carcinoma. Canadian Association of Radiologists Journal, 2019, 70, 394-402.	2.0	12
20	Automatic recognition and analysis of metal streak artifacts in head and neck computed tomography for radiomics modeling. Physics and Imaging in Radiation Oncology, 2019, 10, 49-54.	2.9	23
21	MRI-Derived Radiomics to Guide Post-operative Management for High-Risk Prostate Cancer. Frontiers in Oncology, 2019, 9, 807.	2.8	35
22	Integrated models incorporating radiologic and radiomic features predict meningioma grade, local failure, and overall survival. Neuro-Oncology Advances, 2019, 1, vdz011.	0.7	64
23	Machine learning reveals multimodal MRI patterns predictive of isocitrate dehydrogenase and 1p/19q status in diffuse low- and high-grade gliomas. Journal of Neuro-Oncology, 2019, 142, 299-307.	2.9	98
24	Creating Robust Predictive Radiomic Models for Data From Independent Institutions Using Normalization. IEEE Transactions on Radiation and Plasma Medical Sciences, 2019, 3, 210-215.	3.7	35
25	Radiomics Analysis for Clinical Decision Support in Nuclear Medicine. Seminars in Nuclear Medicine, 2019, 49, 438-449.	4.6	38
26	Deep learning in head & neck cancer outcome prediction. Scientific Reports, 2019, 9, 2764.	3.3	145
27	Comparison of Radiomics Models Built Through Machine Learning in a Multicentric Context With Independent Testing: Identical Data, Similar Algorithms, Different Methodologies. IEEE Transactions on Radiation and Plasma Medical Sciences, 2019, 3, 192-200.	3.7	16
28	An Empirical Approach for Avoiding False Discoveries When Applying High-Dimensional Radiomics to Small Datasets. IEEE Transactions on Radiation and Plasma Medical Sciences, 2019, 3, 201-209.	3.7	16
29	External validation of a combined PET and MRI radiomics model for prediction of recurrence in cervical cancer patients treated with chemoradiotherapy. European Journal of Nuclear Medicine and Molecular Imaging, 2019, 46, 864-877.	6.4	138
30	Responsible Radiomics Research for Faster Clinical Translation. Journal of Nuclear Medicine, 2018, 59, 189-193.	5.0	154
31	A Deep Look Into the Future of Quantitative Imaging in Oncology: A Statement of Working Principles and Proposal for Change. International Journal of Radiation Oncology Biology Physics, 2018, 102, 1074-1082.	0.8	86
32	Investigating the role of functional imaging in the management of soft-tissue sarcomas of the extremities. Physics and Imaging in Radiation Oncology, 2018, 6, 53-60.	2.9	4
33	MRI features predict survival and molecular markers in diffuse lower-grade gliomas. Neuro-Oncology, 2017, 19, 862-870.	1.2	287
34	Enhancement of multimodality texture-based prediction models via optimization of PET and MR image acquisition protocols: a proof of concept. Physics in Medicine and Biology, 2017, 62, 8536-8565.	3.0	23
35	Radiomics strategies for risk assessment of tumour failure in head-and-neck cancer. Scientific Reports, 2017, 7, 10117.	3.3	391
36	<sup>18</sup> F-FDG PET Uptake Characterization Through Texture Analysis: Investigating the Complementary Nature of Heterogeneity and Functional Tumor Volume in a Multi-Cancer Site Patient Cohort. Journal of Nuclear Medicine, 2015, 56, 38-44.	5.0	374

#	ARTICLE	IF	CITATIONS
37	Two-Dimensional Nanoscale Structural and Functional Imaging in Individual Collagen Type I Fibrils. Biophysical Journal, 2010, 98, 3070-3077.	0.5	60
38	Predicting Adverse Radiation Effects in Brain Tumors After Stereotactic Radiotherapy With Deep Learning and Handcrafted Radiomics. Frontiers in Oncology, 0, 12, .	2.8	3