Martin ValliÃ¨res

List of Publications by Year
in descending order

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38 papers	4,592 citations	304602 22 h-index	345118 36 g-index
38 all docs	38 docs citations	38 times ranked	5525 citing authors

#	Article	IF	Citations
1	The Image Biomarker Standardization Initiative: Standardized Quantitative Radiomics for High-Throughput Image-based Phenotyping. Radiology, 2020, 295, 328-338.	3.6	1,869
2	Radiomics strategies for risk assessment of tumour failure in head-and-neck cancer. Scientific Reports, 2017, 7, 10117.	1.6	391
3	¹⁸F-FDG PET Uptake Characterization Through Texture Analysis: Investigating the Complementary Nature of Heterogeneity and Functional Tumor Volume in a Multiâ€"Cancer Site Patient Cohort. Journal of Nuclear Medicine, 2015, 56, 38-44.	2.8	374
4	MRI features predict survival and molecular markers in diffuse lower-grade gliomas. Neuro-Oncology, 2017, 19, 862-870.	0.6	287
5	Machine and deep learning methods for radiomics. Medical Physics, 2020, 47, e185-e202.	1.6	232
6	Responsible Radiomics Research for Faster Clinical Translation. Journal of Nuclear Medicine, 2018, 59, 189-193.	2.8	154
7	Deep learning in head & neck cancer outcome prediction. Scientific Reports, 2019, 9, 2764.	1.6	145
8	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.	3.3	138
9	Head and neck tumor segmentation in PET/CT: The HECKTOR challenge. Medical Image Analysis, 2022, 77, 102336.	7.0	114
10	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.	1.4	98
11	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.	0.4	86
12	Deep Learning to Distinguish Benign from Malignant Renal Lesions Based on Routine MR Imaging. Clinical Cancer Research, 2020, 26, 1944-1952.	3.2	86
13	Integrated models incorporating radiologic and radiomic features predict meningioma grade, local failure, and overall survival. Neuro-Oncology Advances, 2019, 1, vdz011.	0.4	64
14	Two-Dimensional Nanoscale Structural and Functional Imaging in Individual Collagen Type I Fibrils. Biophysical Journal, 2010, 98, 3070-3077.	0.2	60
15	External Validation of an MRI-Derived Radiomics Model to Predict Biochemical Recurrence after Surgery for High-Risk Prostate Cancer. Cancers, 2020, 12, 814.	1.7	50
16	Overview of the HECKTOR Challenge at MICCAI 2020: Automatic Head and Neck Tumor Segmentation in PET/CT. Lecture Notes in Computer Science, 2021, , 1-21.	1.0	49
17	An artificial intelligence framework integrating longitudinal electronic health records with real-world data enables continuous pan-cancer prognostication. Nature Cancer, 2021, 2, 709-722.	5.7	41
18	Overview of the HECKTOR Challenge at MICCAI 2021: Automatic Head and Neck Tumor Segmentation and Outcome Prediction in PET/CT Images. Lecture Notes in Computer Science, 2022, , 1-37.	1.0	39

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19	Radiomics Analysis for Clinical Decision Support in Nuclear Medicine. Seminars in Nuclear Medicine, 2019, 49, 438-449.	2.5	38
20	MRI-Derived Radiomics to Guide Post-operative Management for High-Risk Prostate Cancer. Frontiers in Oncology, 2019, 9, 807.	1.3	35
21	Creating Robust Predictive Radiomic Models for Data From Independent Institutions Using Normalization. IEEE Transactions on Radiation and Plasma Medical Sciences, 2019, 3, 210-215.	2.7	35
22	Deep Learning Based on <scp>MRI</scp> for Differentiation of Lowâ€•and Highâ€Grade in Lowâ€Stage Renal Cell Carcinoma. Journal of Magnetic Resonance Imaging, 2020, 52, 1542-1549.	1.9	31
23	Development and Validation of Multiparametric MRIâ€“based Radiomics Models for Preoperative Risk Stratification of Endometrial Cancer. Radiology, 2022, 305, 375-386.	3.6	30
24	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.	1.6	23
25	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.	1.2	23
26	Machine Learning-Based Prediction of COVID-19 Severity and Progression to Critical Illness Using CT Imaging and Clinical Data. Korean Journal of Radiology, 2021, 22, 1213.	1.5	20
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.	2.7	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.	2.7	16
29	Magnetic Resonance Imaging Texture Analysis Predicts Recurrence in Patients with Nasopharyngeal Carcinoma. Canadian Association of Radiologists Journal, 2019, 70, 394-402.	1.1	12
30	Radiomics-Based Machine Learning for Outcome Prediction in a Multicenter Phase II Study of Programmed Death-Ligand 1 Inhibition Immunotherapy for Glioblastoma. American Journal of Neuroradiology, 2022, 43, 675-681.	1.2	12
31	Investigating the impact of the CT Hounsfield unit range on radiomic feature stability using dual energy CT data. Physica Medica, 2021, 88, 272-277.	0.4	6
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.	1.2	4
33	Cleaning radiotherapy contours for radiomics studies, is it worth it? A head and neck cancer study. Clinical and Translational Radiation Oncology, 2022, 33, 153-158.	0.9	4
34	Predicting Adverse Radiation Effects in Brain Tumors After Stereotactic Radiotherapy With Deep Learning and Handcrafted Radiomics. Frontiers in Oncology, 0, 12, .	1.3	3
35	Overlooked pitfalls in multi-class machine learning classification in radiation oncology and how to avoid them. Physica Medica, 2020, 70, 96-100.	0.4	2
36	Development of patient-specific 3D models from histopathological samples for applications in radiation therapy. Physica Medica, 2021, 81, 162-169.	0.4	2

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37	FDG-PET/CT Radiomics Models for The Early Prediction of Locoregional Recurrence in Head and Neck Cancer. Current Medical Imaging, 2021, 17, 374-383.	0.4	2
38	Patient-specific microdosimetry: a proof of concept. Physics in Medicine and Biology, 2021, 66, 185011.	1.6	1