Valentina Giannini

List of Publications by Year
in descending order

62 papers	1,029 citations	567144 15 h-index	477173 29 g-index
62 all docs	62 docs citations	62 times ranked	1668 citing authors

#	Article	IF	Citations
1	Delta-Radiomics Predicts Response to First-Line Oxaliplatin-Based Chemotherapy in Colorectal Cancer Patients with Liver Metastases. Cancers, 2022, 14, 241.	1.7	14
2	MRI-based radiomics to predict response in locally advanced rectal cancer: comparison of manual and automatic segmentation on external validation in a multicentre study. European Radiology Experimental, 2022, 6, 19.	1.7	15
3	Integration of Deep Learning and Active Shape Models for More Accurate Prostate Segmentation in 3D MR Images. Journal of Imaging, 2022, 8, 133.	1.7	10
4	Diagnostic Accuracy of Single-plane Biparametric and Multiparametric Magnetic Resonance Imaging in Prostate Cancer: A Randomized Noninferiority Trial in Biopsy-naÃ¯ve Men. European Urology Oncology, 2021, 4, 855-862.	2.6	15
5	Radiomics and Magnetic Resonance Imaging of Rectal Cancer: From Engineering to Clinical Practice. Diagnostics, 2021, 11, 756.	1.3	41
6	Computer-Aided Diagnosis Improves the Detection of Clinically Significant Prostate Cancer on Multiparametric-MRI: A Multi-Observer Performance Study Involving Inexperienced Readers. Diagnostics, 2021, 11, 973.	1.3	11
7	Reply to Anwar R. Padhani, Ivo G. Schoots, Jelle O. Barentsz. Fast Magnetic Resonance Imaging as a Viable Method for Directing the Prostate Cancer Diagnostic Pathway. Eur Urol Oncol. In press. https://doi.org/10.1016/j.euo.2021.04.009. European Urology Oncology, 2021, 4, 866-866.	2.6	0
8	A Fully Automatic Artificial Intelligence System Able to Detect and Characterize Prostate Cancer Using Multiparametric MRI: Multicenter and Multi-Scanner Validation. Frontiers in Oncology, 2021, 11, 718155.	1.3	16
9	Virtual biopsy in prostate cancer: can machine learning distinguish low and high aggressive tumors on MRI?. , 2021, 2021, 3374-3377.		3
10	Deep learning model for automatic prostate segmentation on bicentric T2w images with and without endorectal coil. , 2021, 2021, 3370-3373.		5
11	Comparison of radiomics approaches to predict resistance to 1st line chemotherapy in liver metastatic colorectal cancer. , 2021, 2021, 3305-3308.		5
12	An innovative radiomics approach to predict response to chemotherapy of liver metastases based on CT images. , 2020, 2020, 1339-1342.		8
13	Deep learning to segment liver metastases on CT images: impact on a radiomics method to predict response to chemotherapy. , 2020, , .		2
14	Radiomics predicts response of individual <scp>HER2</scp>â€amplified colorectal cancer liver metastases in patients treated with <scp>HER2</scp>â€targeted therapy. International Journal of Cancer, 2020, 147, 3215-3223.	2.3	27
15	Comparison of Histogram-based Textural Features between Cancerous and Normal Prostatic Tissue in Multiparametric Magnetic Resonance Images. , 2020, 2020, 1671-1674.		5
16	A Convolutional Neural Network based system for Colorectal cancer segmentation on MRI images. , 2020, 2020, 1675-1678.		14
17	Standardization of CT radiomics features for multi-center analysis: impact of software settings and parameters. Physics in Medicine and Biology, 2020, 65, 195012.	1.6	17
18	Impact of inter-reader contouring variability on textural radiomics of colorectal liver metastases. European Radiology Experimental, 2020, 4, 62.	1.7	29

#	Article	IF	Citations
19	A cloud-based computer-aided detection system improves identification of lung nodules on computed tomography scans of patients with extra-thoracic malignancies. European Radiology, 2019, 29, 144-152.	2.3	24
20	Multimodal T2w and DWI Prostate Gland Automated Registration. , 2019, 2019, 4427-4430.		1
21	Nipple-sparing mastectomy: external validation of a three-dimensional automated method to predict nipple occult tumour involvement on preoperative breast MRI. European Radiology Experimental, 2019, 3, 31.	1.7	5
22	Predicting locally advanced rectal cancer response to neoadjuvant therapy with 18F-FDG PET and MRI radiomics features. European Journal of Nuclear Medicine and Molecular Imaging, 2019, 46, 878-888.	3.3	113
23	Radiological Wheeler staging system: a retrospective cohort analysis to improve the local staging of prostate cancer with multiparametric MRI. Minerva Urologica E Nefrologica = the Italian Journal of Urology and Nephrology, 2019, 71, 264-272.	3.9	9
24	Radiomics features on CT scans to predict response to HER2-targeted therapy of hepatic metastases from colorectal cancer.. Journal of Clinical Oncology, 2019, 37, e15086-e15086.	0.8	0
25	Abstract 1412: CT texture analysis to predict response to target therapy of hepatic metastases from colorectal cancer. , 2019, , .		0
26	Abstract 1412: CT texture analysis to predict response to target therapy of hepatic metastases from colorectal cancer. , 2019, , .		0
27	Computer-aided diagnosis of prostate cancer using multi-parametric MRI: comparison between PUN and Tofts models. Physics in Medicine and Biology, 2018, 63, 095004.	1.6	7
28	16. Predicting neoadjuvant therapy response in locally advanced rectal cancer using texture features. Physica Medica, 2018, 56, 70.	0.4	0
29	Radiomics to Predict Response to Neoadjuvant Chemotherapy in Rectal Cancer: Influence of Simultaneous Feature Selection and Classifier Optimization. , 2018, , .		13
30	Correlation based Feature Selection impact on the classification of breast cancer patients response to neoadjuvant chemotherapy. , 2018, , .		3
31	Radiomics for pretreatment prediction of pathological response to neoadjuvant therapy using magnetic resonance imaging: Influence of feature selection. , 2018, , .		5
32	PO-0790: Texture features to assess response to neoadjuvant therapy in locally advanced rectal cancer. Radiotherapy and Oncology, 2018, 127, S408-S409.	0.3	0
33	Computer-Aided Diagnosis of Prostate Magnetic Resonance Imaging. , 2018, , 295-316.		0
34	Nipple Sparing Mastectomy: validation of a semi automated method to predict nipple occult tumor involvement using preoperative breast MRI. Breast, 2017, 32, S112.	0.9	0
35	Multiparametric magnetic resonance imaging of the prostate with computer-aided detection: experienced observer performance study. European Radiology, 2017, 27, 4200-4208.	2.3	54
36	MRI to predict nippleâ€areola complex (NAC) involvement: An automatic method to compute the 3D distance between the NAC and tumor. Journal of Surgical Oncology, 2017, 116, 1069-1078.	0.8	8

#	Article	IF	Citations
37	A computer-aided diagnosis (CAD) scheme for pretreatment prediction of pathological response to neoadjuvant therapy using dynamic contrast-enhanced MRI texture features. British Journal of Radiology, 2017, 90, 20170269.	1.0	25
38	Specificity improvement of a CAD system for multiparametric MR prostate cancer using texture features and artificial neural networks. Health and Technology, 2017, 7, 71-80.	2.1	9
39	Big data in oncologic imaging. Radiologia Medica, 2017, 122, 458-463.	4.7	4
40	MR-T2-weighted signal intensity: a new imaging biomarker of prostate cancer aggressiveness. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2016, 4, 130-134.	1.3	9
41	Detection of prostate cancer index lesions with multiparametric magnetic resonance imaging (mpâ€<scp>MRI</scp>) using wholeâ€mount histological sections as the reference standard. BJU International, 2016, 118, 84-94.	1.3	63
42	Texture Features and Artificial Neural Networks: A Way to Improve the Specificity of a CAD System for Multiparametric MR Prostate Cancer. IFMBE Proceedings, 2016, , 296-301.	0.2	2
43	Dataset homogeneity assessment for a prostate cancer CAD system. , 2016, , .		4
44	A Novel and Fully Automated Registration Method for Prostate Cancer Detection Using Multiparametric Magnetic Resonance Imaging. Journal of Medical Imaging and Health Informatics, 2015, 5, 1171-1182.	0.2	12
45	ChiMerge discretization method: Impact on a computer aided diagnosis system for prostate cancer in MRI. , 2015, , .		13
46	Texture features on T2-weighted magnetic resonance imaging: new potential biomarkers for prostate cancer aggressiveness. Physics in Medicine and Biology, 2015, 60, 2685-2701.	1.6	110
47	A fully automatic computer aided diagnosis system for peripheral zone prostate cancer detection using multi-parametric magnetic resonance imaging. Computerized Medical Imaging and Graphics, 2015, 46, 219-226.	3.5	57
48	A 3D Voxel Neighborhood Classification Approach within a Multiparametric MRI Classifier for Prostate Cancer Detection. Lecture Notes in Computer Science, 2015, , 231-239.	1.0	1
49	A new algorithm for automatic vascular mapping of DCE-MRI of the breast: Clinical application of a potential new biomarker. Computer Methods and Programs in Biomedicine, 2014, 117, 482-488.	2.6	10
50	A Prostate Cancer Computer Aided Diagnosis Software including Malignancy Tumor Probabilistic Classification. , 2014, , .		0
51	Enhanced technological and permeation properties of a microencapsulated soy isoflavones extract. Journal of Food Engineering, 2013, 115, 298-305.	2.7	28
52	A dynamic assessment tool for exploring and communicating vulnerability toÂfloods and climate change. Environmental Modelling and Software, 2013, 44, 136-147.	1.9	36
53	A prostate CAD system based on multiparametric analysis of DCE T1-w, and DW automatically registered images. , 2013, , .		9
54	A Fully Automatic Multiscale 3-Dimensional Hessian-Based Algorithm for Vessel Detection in Breast DCE-MRI. Investigative Radiology, 2012, 47, 705-710.	3.5	9

#	Article	IF	Citations
55	Computerâ€aided diagnosis for dynamic contrastâ€enhanced breast MRI of massâ€like lesions using a multiparametric model combining a selection of morphological, kinetic, and spatiotemporal features. Medical Physics, 2012, 39, 1704-1715.	1.6	43
56	792 A CAD system for prostate cancer detection on MRI. European Urology Supplements, 2012, 11, e792-e792a.	0.1	0
57	A CAD system based on multi-parametric analysis for cancer prostate detection on DCE-MRI. Proceedings of SPIE, 2011, , .	0.8	7
58	Performance of a fully automatic lesion detection system for breast DCEâ€MRI. Journal of Magnetic Resonance Imaging, 2011, 34, 1341-1351.	1.9	53
59	A fully automatic method to register the prostate gland on T2-weighted and EPI-DWI images. , 2011, 2011, 8029-32.		4
60	A fully automatic algorithm for segmentation of the breasts in DCE-MR images. , 2010, 2010, 3146-9.		32
61	A fully automatic lesion detection method for DCE-MRI fat-suppressed breast images. , 2009, , .		9
62	Registration, Lesion Detection, and Discrimination for Breast Dynamic Contrast-Enhanced Magnetic Resonance Imaging. , 0, , .		1