

Maria Francesca Spadea

List of Publications by Year in descending order

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27
papers

1,091
citations

471371

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552653

26
g-index

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all docs

27
docs citations

27
times ranked

1536
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of segmentation methods on head and neck <sc>CT</sc>: Autoâ€segmentation challenge 2015. Medical Physics, 2017, 44, 2020-2036.	1.6	198
2	Automatic segmentation of head and neck CT images for radiotherapy treatment planning using multiple atlases, statistical appearance models, and geodesic active contours. Medical Physics, 2014, 41, 051910.	1.6	109
3	Deep learning based syntheticâ€CT generation in radiotherapy and PET: A review. Medical Physics, 2021, 48, 6537-6566.	1.6	90
4	MR-guided proton therapy: a review and a preview. Radiation Oncology, 2020, 15, 129.	1.2	85
5	Deep Convolution Neural Network (DCNN) Multiplane Approach to Synthetic CT Generation From MR imagesâ€Application in Brain Proton Therapy. International Journal of Radiation Oncology Biology Physics, 2019, 105, 495-503.	0.4	71
6	Innate Immunity: A Common Denominator between Neurodegenerative and Neuropsychiatric Diseases. International Journal of Molecular Sciences, 2020, 21, 1115.	1.8	70
7	Automatic Segmentation and Online virtualCT in Head-and-Neck Adaptive Radiation Therapy. International Journal of Radiation Oncology Biology Physics, 2012, 84, e427-e433.	0.4	66
8	Technical Note: <sc>plastimatch mabs</sc>, an open source tool for automatic image segmentation. Medical Physics, 2016, 43, 5155-5160.	1.6	48
9	Fully automatic catheter segmentation in MRI with 3D convolutional neural networks: application to MRI-guided gynecologic brachytherapy. Physics in Medicine and Biology, 2019, 64, 165008.	1.6	47
10	A multiple points method for 4D CT image sorting. Medical Physics, 2011, 38, 656-667.	1.6	41
11	Atlas-based segmentation in breast cancer radiotherapy: Evaluation of specific and generic-purpose atlases. Breast, 2017, 32, 44-52.	0.9	40
12	Innate Immunity Cells and the Neurovascular Unit. International Journal of Molecular Sciences, 2018, 19, 3856.	1.8	38
13	Lipid Droplet Biosynthesis Impairment through DGAT2 Inhibition Sensitizes MCF7 Breast Cancer Cells to Radiation. International Journal of Molecular Sciences, 2021, 22, 10102.	1.8	26
14	Evaluation and commissioning of a surface based system for respiratory sensing in 4D CT. Journal of Applied Clinical Medical Physics, 2011, 12, 162-169.	0.8	24
15	Motion Compensation in Hand-held Laser Scanning for Surface Modeling in Plastic and Reconstructive Surgery. Annals of Biomedical Engineering, 2009, 37, 1877-1885.	1.3	22
16	Proton range shift analysis on brain pseudo-CT generated from T1 and T2 MR. Acta OncolÃ³gica, 2018, 57, 1521-1531.	0.8	22
17	An Open-Source COVID-19 CT Dataset with Automatic Lung Tissue Classification for Radiomics. Bioengineering, 2021, 8, 26.	1.6	21
18	Clinical suitability of deep learning based synthetic CTs for adaptive proton therapy of lung cancer. Medical Physics, 2021, 48, 7673-7684.	1.6	19

#	ARTICLE	IF	CITATIONS
19	Imaging in particle therapy: State of the art and future perspective. Acta OncolÃ³gica, 2015, 54, 1254-1258.	0.8	15
20	Contrast-Enhanced Proton Radiography for Patient Set-up by Using X-Ray CT Prior Knowledge. International Journal of Radiation Oncology Biology Physics, 2014, 90, 628-636.	0.4	12
21	Using CNNs for Designing and Implementing an Automatic Vascular Segmentation Method of Biomedical Images. Lecture Notes in Computer Science, 2018, , 60-70.	1.0	9
22	Advanced Multimodal Methods for Cranial Pseudo-CT Generation Validated by IMRT and VMAT Radiation Therapy Plans. International Journal of Radiation Oncology Biology Physics, 2018, 102, 792-800.	0.4	6
23	Longitudinal Motion Assessment of the Carotid Artery Using Speckle Tracking and Scale-Invariant Feature Transform. Annals of Biomedical Engineering, 2017, 45, 1865-1876.	1.3	5
24	SlicerArduino: A Bridge between Medical Imaging Platform and Microcontroller. Bioengineering, 2020, 7, 109.	1.6	2
25	Evaluating the Impact of Training Loss on MR to Synthetic CT Conversion. Lecture Notes in Computer Science, 2020, , 563-573.	1.0	2
26	Algorithms to Preprocess Microarray Image Data. Methods in Molecular Biology, 2022, 2401, 69-78.	0.4	2
27	CoroFinder: A New Tool for Real Time Detection and Tracking of Coronary Arteries in Contrast-Free Cine-Angiography. Journal of Personalized Medicine, 2022, 12, 411.	1.1	1