Guido Baroni

List of Publications by Year
in descending order

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		394421	454955
60	1,045	19	30
papers	citations	h-index	g-index

60	60	60	1509
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Medical physics challenges in clinical MR-guided radiotherapy. Radiation Oncology, 2020, 15, 93.	2.7	101
2	Liver 4DMRI: A retrospective imageâ€based sorting method. Medical Physics, 2015, 42, 4814-4821.	3.0	57
3	Tumor Tracking Method Based on a Deformable 4D CT Breathing Motion Model Driven by an External Surface Surrogate. International Journal of Radiation Oncology Biology Physics, 2014, 88, 182-188.	0.8	56
4	Role of interim 18F-FDG-PET/CT for the early prediction of clinical outcomes of Non-Small Cell Lung Cancer (NSCLC) during radiotherapy or chemo-radiotherapy. A systematic review. European Journal of Nuclear Medicine and Molecular Imaging, 2017, 44, 1915-1927.	6.4	53
5	Dosimetric characterization of 3D printed bolus at different infill percentage for external photon beam radiotherapy. Physica Medica, 2017, 39, 25-32.	0.7	53
6	3D-printed applicators for high dose rate brachytherapy: Dosimetric assessment at different infill percentage. Physica Medica, 2016, 32, 1698-1706.	0.7	50
7	Magnetic Resonance Imagingâ€“Guided versus Surrogate-Based Motion Tracking in Liver Radiation Therapy: A Prospective Comparative Study. International Journal of Radiation Oncology Biology Physics, 2015, 91, 840-848.	0.8	41
8	Atlas-based segmentation in breast cancer radiotherapy: Evaluation of specific and generic-purpose atlases. Breast, 2017, 32, 44-52.	2.2	40
9	Static and dynamic postural control in long-term microgravity: evidence of a dual adaptation. Journal of Applied Physiology, 2001, 90, 205-215.	2.5	34
10	Real-Time Opto-Electronic Verification of Patient Position in Breast Cancer Radiotherapy. Computer Aided Surgery, 2000, 5, 296-306.	1.8	33
11	The impact of low-Z and high-Z metal implants in IMRT: A Monte Carlo study of dose inaccuracies in commercial dose algorithms. Medical Physics, 2013, 41, 011702.	3.0	33
12	Integration of Enhanced Optical Tracking Techniques and Imaging in IGRT. Journal of Radiation Research, 2007, 48, A61-A74.	1.6	31
13	Dosimetric effects within target and organs at risk of interfractional patient mispositioning in left breast cancer radiotherapy. International Journal of Radiation Oncology Biology Physics, 2004, 59, 861-871.	0.8	30
14	Intra-fraction respiratory motion and baseline drift during breast Helical Tomotherapy. Radiotherapy and Oncology, 2017, 122, 79-86.	0.6	30
15	Radiomics and Dosiomics for Predicting Local Control after Carbon-Ion Radiotherapy in Skull-Base Chordoma. Cancers, 2021, 13, 339.	3.7	28
16	3D optoelectronic analysis of interfractional patient setup variability in frameless extracranial stereotactic radiotherapy. International Journal of Radiation Oncology Biology Physics, 2006, 64, 635-642.	0.8	27
17	2D/3D reconstruction of the distal femur using statistical shape models addressing personalized surgical instruments in knee arthroplasty: A feasibility analysis. International Journal of Medical Robotics and Computer Assisted Surgery, 2017, 13, e1823.	2.3	27
18	[11C]Choline PET/CT Impacts Treatment Decision Making in Patients With Prostate Cancer Referred for Radiotherapy. Clinical Genitourinary Cancer, 2014, 12, 155-159.	1.9	20

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19	Kinetic Models for Predicting Cervical Cancer Response to Radiation Therapy on Individual Basis Using Tumor Regression Measured In Vivo With Volumetric Imaging. Technology in Cancer Research and Treatment, 2016, 15, 146-158.	1.9	20
20	Virtual 4DCT from 4DMRI for the management of respiratory motion in carbon ion therapy of abdominal tumors. Medical Physics, 2020, 47, 909-916.	3.0	19
21	Multimodal image registration for the identification of dominant intraprostatic lesion in high-precision radiotherapy treatments. British Journal of Radiology, 2017, 90, 20170021.	2.2	18
22	Geometric and dosimetric accuracy and imaging dose of the real-time tumour tracking system of a gimbal mounted linac. Physica Medica, 2015, 31, 501-509.	0.7	17
23	A 3D kinematic analysis of breathing patterns in competitive swimmers. Journal of Sports Sciences, 2012, 30, 1551-1560.	2.0	15
24	Stacked sparse autoencoder networks and statistical shape models for automatic staging of distal femur trochlear dysplasia. International Journal of Medical Robotics and Computer Assisted Surgery, 2018, 14, e1947.	2.3	13
25	A clustering approach to 4D MRI retrospective sorting for the investigation of different surrogates. Physica Medica, 2019, 58, 107-113.	0.7	13
26	Imageâ€based shading correction for narrowâ€FOV truncated pelvic CBCT with deep convolutional neural networks and transfer learning. Medical Physics, 2021, 48, 7112-7126.	3.0	13
27	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.	0.8	12
28	MRI evaluation of sacral chordoma treated with carbon ion radiotherapy alone. Radiotherapy and Oncology, 2018, 128, 203-208.	0.6	11
29	MRI-based tumour control probability in skull-base chordomas treated with carbon-ion therapy. Radiotherapy and Oncology, 2019, 137, 32-37.	0.6	10
30	Perfusion and diffusion in meningioma tumors: a preliminary multiparametric analysis with Dynamic Susceptibility Contrast and IntraVoxel Incoherent Motion MRI. Magnetic Resonance Imaging, 2020, 67, 69-78.	1.8	10
31	Improving the characterization of meningioma microstructure in proton therapy from conventional apparent diffusion coefficient measurements using Monte Carlo simulations of diffusion MRI. Medical Physics, 2021, 48, 1250-1261.	3.0	10
32	Automating the design of resection guides specific to patient anatomy in knee replacement surgery by enhanced 3D curvature and surface modeling of distal femur shape models. Computerized Medical Imaging and Graphics, 2014, 38, 664-674.	5.8	9
33	Accuracy of lowâ€dose proton <scp>CT</scp> image registration for pretreatment alignment verification in reference to planning proton <scp>CT</scp>. Journal of Applied Clinical Medical Physics, 2019, 20, 83-90.	1.9	9
34	Optimized PET Imaging for 4D Treatment Planning in Radiotherapy: the Virtual 4D PET Strategy. Technology in Cancer Research and Treatment, 2015, 14, 99-110.	1.9	8
35	Scan path optimization with/without clustering for active beam delivery in charged particle therapy. Physica Medica, 2015, 31, 130-136.	0.7	7
36	Tumor radioâ€sensitivity assessment by means of volume data and magnetic resonance indices measured on prostate tumor bearing rats. Medical Physics, 2016, 43, 1275-1284.	3.0	7

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37	Modeling RBEâ€weighted dose variations in irregularly moving abdominal targets treated with carbon ion beams. Medical Physics, 2020, 47, 2768-2778.	3.0	7
38	Investigating the use of virtual 4DCT from 4DMRI in gated carbon ion radiation therapy of abdominal tumors. Zeitschrift Fur Medizinische Physik, 2022, 32, 98-108.	1.5	6
39	Predictive role of Apparent Diffusion Coefficient (ADC) from Diffusion Weighted MRI in patients with sacral chordoma treated with carbon ion radiotherapy (CIRT) alone. European Journal of Radiology, 2020, 126, 108933.	2.6	6
40	Multi-parametric qualitative and quantitative MRI assessment as predictor of histological grading in previously treated meningiomas. Neuroradiology, 2020, 62, 1441-1449.	2.2	6
41	Intravoxel incoherent motion as a tool to detect early microstructural changes in meningiomas treated with proton therapy. Neuroradiology, 2021, 63, 1053-1060.	2.2	6
42	Investigating DWI changes in white matter of meningioma patients treated with proton therapy. Physica Medica, 2021, 84, 72-79.	0.7	6
43	Timeâ€resolved MRI for offâ€line treatment robustness evaluation in carbonâ€ion radiotherapy of pancreatic cancer. Medical Physics, 2022, 49, 2386-2395.	3.0	6
44	Patient-specific modeling of the trochlear morphologic anomalies by means of hyperbolic paraboloids. Computer Assisted Surgery, 2016, 21, 29-38.	1.3	5
45	A micro-optical system for endoscopy based on mechanical compensation paradigm using miniature piezo-actuation. Medical Engineering and Physics, 2014, 36, 684-693.	1.7	4
46	First clinical investigation of a 4D maximum likelihood reconstruction for 4D PET-based treatment verification in ion beam therapy. Radiotherapy and Oncology, 2017, 123, 339-345.	0.6	4
47	Thoracoabdominal breathing motion pattern and coordination of professional ballet dancers. Sports Biomechanics, 2019, 18, 51-62.	1.6	4
48	Crowd knowledge based community in radiotherapy: In response to Yartev et al.. Radiotherapy and Oncology, 2014, 112, 453.	0.6	3
49	Model-Supported Radiotherapy Personalization: In silico Test of Hyper- and Hypo-Fractionation Effects. Frontiers in Physiology, 2018, 9, 1445.	2.8	3
50	A segmentation tool for pulmonary nodules in lung cancer screening: Testing and clinical usage. Physica Medica, 2021, 90, 23-29.	0.7	3
51	Optimal marker placement in hadrontherapy: Intelligent optimization strategies with augmented Lagrangian pattern search. Journal of Biomedical Informatics, 2015, 53, 65-72.	4.3	2
52	Comparison between modelâ€predicted tumor oxygenation dynamics and vascularâ€flowâ€related Doppler indices. Medical Physics, 2017, 44, 2011-2019.	3.0	2
53	An MRI framework for respiratory motion modelling validation. Journal of Medical Imaging and Radiation Oncology, 2021, 65, 337-344.	1.8	2
54	Dosimetric impact of geometric distortions in an MRI-only proton therapy workflow for lung, liver and pancreas. Zeitschrift Fur Medizinische Physik, 2020, , .	1.5	2

#	Article	IF	Citations
55	Current status of 4D offline PET-based treatment verification at the Heidelberg Ion-Beam Therapy Center. , 2013, , .		1
56	A Microstructure Model from Conventional Diffusion MRI of Meningiomas: Impact of Noise and Error Minimization. Lecture Notes in Computer Science, 2021, , 25-35.	1.3	1
57	Role of diffusion-weighted MRI in recurrent rectal cancer treated with carbon ion radiotherapy. Future Oncology, 0, , .	2.4	1
58	Validation of deformable registration in adaptive radiation therapy with scale invariant feature transform. , 2012, , .		0
59	Is age rating enough to investigate changes in breathing motion pattern associated with aging of physically active women?. Journal of Biomechanics, 2021, 125, 110582.	2.1	0
60	Potential role of functional imaging in predicting outcome for patients treated with carbon ion therapy: a review. British Journal of Radiology, 2021, 94, 20210524.	2.2	0