

# Guido Baroni

## List of Publications by Year in descending order

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Version: 2024-02-01

60  
papers

1,045  
citations

394421

19  
h-index

454955

30  
g-index

60  
all docs

60  
docs citations

60  
times ranked

1509  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Time-resolved MRI for offline treatment robustness evaluation in carbon-ion radiotherapy of pancreatic cancer. Medical Physics, 2022, 49, 2386-2395.	3.0	6
3	Radiomics and Dosiomics for Predicting Local Control after Carbon-Ion Radiotherapy in Skull-Base Chordoma. Cancers, 2021, 13, 339.	3.7	28
4	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
5	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
6	An MRI framework for respiratory motion modelling validation. Journal of Medical Imaging and Radiation Oncology, 2021, 65, 337-344.	1.8	2
7	Investigating DWI changes in white matter of meningioma patients treated with proton therapy. Physica Medica, 2021, 84, 72-79.	0.7	6
8	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
9	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
10	A segmentation tool for pulmonary nodules in lung cancer screening: Testing and clinical usage. Physica Medica, 2021, 90, 23-29.	0.7	3
11	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
12	Image-based shading correction for narrow-FOV truncated pelvic CBCT with deep convolutional neural networks and transfer learning. Medical Physics, 2021, 48, 7112-7126.	3.0	13
13	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
14	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
15	Medical physics challenges in clinical MR-guided radiotherapy. Radiation Oncology, 2020, 15, 93.	2.7	101
16	Modeling RBE-weighted dose variations in irregularly moving abdominal targets treated with carbon ion beams. Medical Physics, 2020, 47, 2768-2778.	3.0	7
17	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
18	Multi-parametric qualitative and quantitative MRI assessment as predictor of histological grading in previously treated meningiomas. Neuroradiology, 2020, 62, 1441-1449.	2.2	6

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19	Dosimetric impact of geometric distortions in an MRI-only proton therapy workflow for lung, liver and pancreas. <i>Zeitschrift Fur Medizinische Physik</i> , 2020, , .	1.5	2
20	MRI-based tumour control probability in skull-base chordomas treated with carbon-ion therapy. <i>Radiotherapy and Oncology</i> , 2019, 137, 32-37.	0.6	10
21	Accuracy of low-dose proton CT image registration for pretreatment alignment verification in reference to planning proton CT. <i>Journal of Applied Clinical Medical Physics</i> , 2019, 20, 83-90.	1.9	9
22	A clustering approach to 4D MRI retrospective sorting for the investigation of different surrogates. <i>Physica Medica</i> , 2019, 58, 107-113.	0.7	13
23	Thoracoabdominal breathing motion pattern and coordination of professional ballet dancers. <i>Sports Biomechanics</i> , 2019, 18, 51-62.	1.6	4
24	MRI evaluation of sacral chordoma treated with carbon ion radiotherapy alone. <i>Radiotherapy and Oncology</i> , 2018, 128, 203-208.	0.6	11
25	Model-Supported Radiotherapy Personalization: In silico Test of Hyper- and Hypo-Fractionation Effects. <i>Frontiers in Physiology</i> , 2018, 9, 1445.	2.8	3
26	Stacked sparse autoencoder networks and statistical shape models for automatic staging of distal femur trochlear dysplasia. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2018, 14, e1947.	2.3	13
27	Atlas-based segmentation in breast cancer radiotherapy: Evaluation of specific and generic-purpose atlases. <i>Breast</i> , 2017, 32, 44-52.	2.2	40
28	Comparison between model-predicted tumor oxygenation dynamics and vascular-flow-related Doppler indices. <i>Medical Physics</i> , 2017, 44, 2011-2019.	3.0	2
29	First clinical investigation of a 4D maximum likelihood reconstruction for 4D PET-based treatment verification in ion beam therapy. <i>Radiotherapy and Oncology</i> , 2017, 123, 339-345.	0.6	4
30	2D/3D reconstruction of the distal femur using statistical shape models addressing personalized surgical instruments in knee arthroplasty: A feasibility analysis. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2017, 13, e1823.	2.3	27
31	Intra-fraction respiratory motion and baseline drift during breast Helical Tomotherapy. <i>Radiotherapy and Oncology</i> , 2017, 122, 79-86.	0.6	30
32	Multimodal image registration for the identification of dominant intraprostatic lesion in high-precision radiotherapy treatments. <i>British Journal of Radiology</i> , 2017, 90, 20170021.	2.2	18
33	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. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2017, 44, 1915-1927.	6.4	53
34	Dosimetric characterization of 3D printed bolus at different infill percentage for external photon beam radiotherapy. <i>Physica Medica</i> , 2017, 39, 25-32.	0.7	53
35	Tumor radio-sensitivity assessment by means of volume data and magnetic resonance indices measured on prostate tumor bearing rats. <i>Medical Physics</i> , 2016, 43, 1275-1284.	3.0	7
36	3D-printed applicators for high dose rate brachytherapy: Dosimetric assessment at different infill percentage. <i>Physica Medica</i> , 2016, 32, 1698-1706.	0.7	50

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37	Patient-specific modeling of the trochlear morphologic anomalies by means of hyperbolic paraboloids. <i>Computer Assisted Surgery</i> , 2016, 21, 29-38.	1.3	5
38	Kinetic Models for Predicting Cervical Cancer Response to Radiation Therapy on Individual Basis Using Tumor Regression Measured <i>In Vivo</i> With Volumetric Imaging. <i>Technology in Cancer Research and Treatment</i> , 2016, 15, 146-158.	1.9	20
39	Liver 4DMRI: A retrospective image-based sorting method. <i>Medical Physics</i> , 2015, 42, 4814-4821.	3.0	57
40	Scan path optimization with/without clustering for active beam delivery in charged particle therapy. <i>Physica Medica</i> , 2015, 31, 130-136.	0.7	7
41	Optimized PET Imaging for 4D Treatment Planning in Radiotherapy: the Virtual 4D PET Strategy. <i>Technology in Cancer Research and Treatment</i> , 2015, 14, 99-110.	1.9	8
42	Geometric and dosimetric accuracy and imaging dose of the real-time tumour tracking system of a gimbal mounted linac. <i>Physica Medica</i> , 2015, 31, 501-509.	0.7	17
43	Optimal marker placement in hadrontherapy: Intelligent optimization strategies with augmented Lagrangian pattern search. <i>Journal of Biomedical Informatics</i> , 2015, 53, 65-72.	4.3	2
44	Magnetic Resonance Imaging-Guided versus Surrogate-Based Motion Tracking in Liver Radiation Therapy: A Prospective Comparative Study. <i>International Journal of Radiation Oncology Biology Physics</i> , 2015, 91, 840-848.	0.8	41
45	[11C]Choline PET/CT Impacts Treatment Decision Making in Patients With Prostate Cancer Referred for Radiotherapy. <i>Clinical Genitourinary Cancer</i> , 2014, 12, 155-159.	1.9	20
46	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. <i>Computerized Medical Imaging and Graphics</i> , 2014, 38, 664-674.	5.8	9
47	Contrast-Enhanced Proton Radiography for Patient Set-up by Using X-Ray CT Prior Knowledge. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014, 90, 628-636.	0.8	12
48	Crowd knowledge based community in radiotherapy: In response to Yartev et al.. <i>Radiotherapy and Oncology</i> , 2014, 112, 453.	0.6	3
49	A micro-optical system for endoscopy based on mechanical compensation paradigm using miniature piezo-actuation. <i>Medical Engineering and Physics</i> , 2014, 36, 684-693.	1.7	4
50	Tumor Tracking Method Based on a Deformable 4D CT Breathing Motion Model Driven by an External Surface Surrogate. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014, 88, 182-188.	0.8	56
51	The impact of low-Z and high-Z metal implants in IMRT: A Monte Carlo study of dose inaccuracies in commercial dose algorithms. <i>Medical Physics</i> , 2013, 41, 011702.	3.0	33
52	Current status of 4D offline PET-based treatment verification at the Heidelberg Ion-Beam Therapy Center. , 2013, , .		1
53	Validation of deformable registration in adaptive radiation therapy with scale invariant feature transform. , 2012, , .		0
54	A 3D kinematic analysis of breathing patterns in competitive swimmers. <i>Journal of Sports Sciences</i> , 2012, 30, 1551-1560.	2.0	15

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55	Integration of Enhanced Optical Tracking Techniques and Imaging in IGRT. Journal of Radiation Research, 2007, 48, A61-A74.	1.6	31
56	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
57	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
58	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
59	Real-Time Opto-Electronic Verification of Patient Position in Breast Cancer Radiotherapy. Computer Aided Surgery, 2000, 5, 296-306.	1.8	33
60	Role of diffusion-weighted MRI in recurrent rectal cancer treated with carbon ion radiotherapy. Future Oncology, 0, , .	2.4	1