

Nicolas Boussion

List of Publications by Year in descending order

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34
papers

822
citations

686830

13
h-index

500791

28
g-index

36
all docs

36
docs citations

36
times ranked

1167
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of the use and potential of the GATE Monte Carlo simulation code for radiation therapy and dosimetry applications. <i>Medical Physics</i> , 2014, 41, 064301.	1.6	332
2	Functional and structural synergy for resolution recovery and partial volume correction in brain PET. <i>NeuroImage</i> , 2009, 44, 340-348.	2.1	81
3	PET Image Denoising Using a Synergistic Multiresolution Analysis of Structural (MRI/CT) and Functional Datasets. <i>Journal of Nuclear Medicine</i> , 2008, 49, 657-666.	2.8	46
4	CT and MR Imaging of Nitinol Stents with Radiopaque Distal Markers. <i>Journal of Vascular and Interventional Radiology</i> , 2004, 15, 615-624.	0.2	41
5	Evaluation of a 3D local multiresolution algorithm for the correction of partial volume effects in positron emission tomography. <i>Medical Physics</i> , 2011, 38, 4920-4933.	1.6	39
6	Contrast enhancement in emission tomography by way of synergistic PET/CT image combination. <i>Computer Methods and Programs in Biomedicine</i> , 2008, 90, 191-201.	2.6	25
7	OncoPET_DB: A Freely Distributed Database of Realistic Simulated Whole Body 18F-FDG PET Images for Oncology. <i>IEEE Transactions on Nuclear Science</i> , 2010, 57, 246-255.	1.2	25
8	Geometrical accuracy and fusion of multimodal vascular images: A phantom study. <i>Medical Physics</i> , 2004, 31, 1434-1443.	1.6	23
9	Monte-Carlo dosimetry for intraoperative radiotherapy using a low energy x-ray source. <i>Acta Oncologica</i> , 2015, 54, 1788-1795.	0.8	23
10	GGEMS-Brachy: GPU GEant4-based Monte Carlo simulation for brachytherapy applications. <i>Physics in Medicine and Biology</i> , 2015, 60, 4987-5006.	1.6	18
11	Patient positioning in radiotherapy based on surface imaging using time of flight cameras. <i>Medical Physics</i> , 2016, 43, 4833-4841.	1.6	18
12	Adrenal Tuberculosis Revealed by FDG PET. <i>Clinical Nuclear Medicine</i> , 2008, 33, 821-823.	0.7	17
13	Image Enhancement With PDEs and Nonconservative Advection Flow Fields. <i>IEEE Transactions on Image Processing</i> , 2019, 28, 3075-3088.	6.0	15
14	Fully automatic deformable registration of pretreatment MRI/CT for image-guided prostate radiotherapy planning. <i>Medical Physics</i> , 2017, 44, 6447-6455.	1.6	13
15	DEMAT: A multi-institutional dosimetry audit of rotational and static intensity-modulated radiotherapy. <i>Physica Medica</i> , 2016, 32, 664-670.	0.4	12
16	Prostate Volume Segmentation in TRUS Using Hybrid Edge-Bhattacharyya Active Surfaces. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 920-933.	2.5	11
17	Towards an optimal reference region in single-photon emission tomography difference images in epilepsy. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2000, 27, 155-160.	3.3	8
18	Automated detection of local normalization areas for ictal-interictal subtraction brain SPECT. <i>Journal of Nuclear Medicine</i> , 2002, 43, 1419-25.	2.8	8

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19	Extraction of epileptogenic foci from PET and SPECT images by fuzzy modeling and data fusion. <i>NeuroImage</i> , 2003, 19, 645-654.	2.1	7
20	Dose to the penile bulb and individual patient anatomy are predictive of erectile dysfunction in men treated with ¹²⁵ I low dose rate brachytherapy for localized prostate cancer. <i>Acta Oncologica</i> , 2019, 58, 1029-1035.	0.8	7
21	Optimization of Spatial Resolution for Peripheral Magnetic Resonance Angiography. <i>Academic Radiology</i> , 2007, 14, 54-61.	1.3	5
22	Multi-Scale Modeling and Oxygen Impact on Tumor Temporal Evolution: Application on Rectal Cancer During Radiotherapy. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 871-880.	5.4	5
23	Kilovoltage intrafraction monitoring during normofractionated prostate cancer radiotherapy. <i>Cancer Radiotherapie: Journal De La Societe Francaise De Radiotherapie Oncologique</i> , 2020, 24, 99-105.	0.6	5
24	GATE Monte-Carlo Simulation of an MV-CBCT Flat Panel for Synergistic Imaging and Dosimetric Applications in Radiotherapy. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2017, 1, 444-451.	2.7	3
25	Optimizing the Beam Selection for Noncoplanar VMAT by Using Simulated Annealing Approach. <i>IEEE Transactions on Radiation and Plasma Medical Sciences</i> , 2022, 6, 609-618.	2.7	3
26	Conditional partial volume correction for emission tomography: A wavelet-based hidden Markov model and multi-resolution approach. , 2008, , .		2
27	PO-0897: Predicting the number of seeds in LDR prostate brachytherapy using machine learning and 320 patients. <i>Radiotherapy and Oncology</i> , 2018, 127, S477-S478.	0.3	2
28	Evaluation of the "Quadrella" at 3 years: New index to assess functional and oncological performance specific to prostate brachytherapy. <i>Brachytherapy</i> , 2018, 17, 782-787.	0.2	2
29	Toxicity in patients treated with permanent prostate brachytherapy using intraoperatively built custom-linked seeds versus loose seeds. <i>Journal of Contemporary Brachytherapy</i> , 2020, 12, 547-553.	0.4	2
30	A machine-learning approach based on 409 treatments to predict optimal number of iodine-125 seeds in low-dose-rate prostate brachytherapy. <i>Journal of Contemporary Brachytherapy</i> , 2021, 13, 541-548.	0.4	2
31	Monte Carlo simulations on GPU for brachytherapy applications. , 2013, , .		1
32	Minimal channel GreenLight photovaporization before permanent implant prostate brachytherapy for patients with obstructive symptoms: Technically feasible and safe. <i>Brachytherapy</i> , 2021, 20, 50-57.	0.2	1
33	Registration and fusion of multimodal vascular images: a phantom study. , 2003, , .		0
34	Abstract P2-13-29: External dosimetry and in vivo measurements improve surgical comprehension of intraoperative radiotherapy using Intrabeam®, , 2015, , .		0