

Antoine Simon

List of Publications by Year in descending order

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70
papers

1,229
citations

361296

20
h-index

414303

32
g-index

81
all docs

81
docs citations

81
times ranked

1497
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of head and neck cancer adaptive radiotherapy to spare the parotid glands and decrease the risk of xerostomia. <i>Radiation Oncology</i> , 2015, 10, 6.	1.2	117
2	Deformable image registration for radiation therapy: principle, methods, applications and evaluation. <i>Acta Oncologica</i> , 2019, 58, 1225-1237.	0.8	74
3	Voxel-based population analysis for correlating local dose and rectal toxicity in prostate cancer radiotherapy. <i>Physics in Medicine and Biology</i> , 2013, 58, 2581-2595.	1.6	66
4	Evaluation of Deformable Image Registration Methods for Dose Monitoring in Head and Neck Radiotherapy. <i>BioMed Research International</i> , 2015, 2015, 1-16.	0.9	53
5	Overview of the predictive value of quantitative 18 FDG PET in head and neck cancer treated with chemoradiotherapy. <i>Critical Reviews in Oncology/Hematology</i> , 2016, 108, 40-51.	2.0	52
6	Identification of a rectal subregion highly predictive of rectal bleeding in prostate cancer IMRT. <i>Radiotherapy and Oncology</i> , 2016, 119, 388-397.	0.3	48
7	Optimal adaptive IMRT strategy to spare the parotid glands in oropharyngeal cancer. <i>Radiotherapy and Oncology</i> , 2016, 120, 41-47.	0.3	46
8	Random Forests to Predict Rectal Toxicity Following Prostate Cancer Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014, 89, 1024-1031.	0.4	45
9	Quantification of dose uncertainties in cumulated dose estimation compared to planned dose in prostate IMRT. <i>Radiotherapy and Oncology</i> , 2016, 119, 129-136.	0.3	44
10	Comparison of CBCT-based dose calculation methods in head and neck cancer radiotherapy: from Hounsfield unit to density calibration curve to deep learning. <i>Medical Physics</i> , 2020, 47, 4683-4693.	1.6	43
11	Segmentation of pelvic structures for planning CT using a geometrical shape model tuned by a multi-scale edge detector. <i>Physics in Medicine and Biology</i> , 2014, 59, 1471-1484.	1.6	38
12	Nomograms to predict late urinary toxicity after prostate cancer radiotherapy. <i>World Journal of Urology</i> , 2013, 32, 743-51.	1.2	33
13	Three distinct sarcomeric patterns of skeletal muscle revealed by SHG and TPEF Microscopy. <i>Optics Express</i> , 2009, 17, 19763.	1.7	32
14	Video and audio processing in paediatrics: a review. <i>Physiological Measurement</i> , 2019, 40, 02TR02.	1.2	31
15	Statistical Shape Model to Generate a Planning Library for Cervical Adaptive Radiotherapy. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 406-416.	5.4	31
16	Multimodal Registration and Data Fusion for Cardiac Resynchronization Therapy Optimization. <i>IEEE Transactions on Medical Imaging</i> , 2014, 33, 1363-1372.	5.4	26
17	Interindividual registration and dose mapping for voxelwise population analysis of rectal toxicity in prostate cancer radiotherapy. <i>Medical Physics</i> , 2016, 43, 2721-2730.	1.6	25
18	Evaluation of multi-atlas-based segmentation of CT scans in prostate cancer radiotherapy. , 2011, , .		23

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19	Surface-Constrained Nonrigid Registration for Dose Monitoring in Prostate Cancer Radiotherapy. IEEE Transactions on Medical Imaging, 2014, 33, 1464-1474.	5.4	23
20	CBCT-guided evolutive library for cervical adaptive IMRT. Medical Physics, 2018, 45, 1379-1390.	1.6	23
21	MRI to CT Prostate Registration for Improved Targeting in Cancer External Beam Radiotherapy. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 1015-1026.	3.9	22
22	Multi-Atlas-Based Segmentation of Pelvic Structures from CT Scans for Planning in Prostate Cancer Radiotherapy. , 2014, , 623-656.		20
23	Impact of MLC leaf width on volumetric modulated arc therapy planning for head and neck cancers. Journal of Applied Clinical Medical Physics, 2013, 14, 40-52.	0.8	18
24	Deformable image registration for dose mapping between external beam radiotherapy and brachytherapy images of cervical cancer. Physics in Medicine and Biology, 2019, 64, 115023.	1.6	18
25	Improving the UAS-S4 hecal airfoil high angles-of-attack performance characteristics using a morphing wing approach. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2016, 230, 118-131.	0.7	17
26	Population model of bladder motion and deformation based on dominant eigenmodes and mixed-effects models in prostate cancer radiotherapy. Medical Image Analysis, 2017, 38, 133-149.	7.0	17
27	The benefit of using bladder sub-volume equivalent uniform dose constraints in prostate intensity-modulated radiotherapy planning. OncoTargets and Therapy, 2016, Volume 9, 7537-7544.	1.0	14
28	Atlas Based Segmentation and Mapping of Organs at Risk from Planning CT for the Development of Voxel-Wise Predictive Models of Toxicity in Prostate Radiotherapy. Lecture Notes in Computer Science, 2010, , 42-51.	1.0	13
29	Assessment of Left Ventricular Function in Cardiac MSCT Imaging by a 4D Hierarchical Surface-Volume Matching Process. International Journal of Biomedical Imaging, 2006, 2006, 1-10.	3.0	10
30	Roles of Deformable Image Registration in adaptive RT: From Contour propagation to dose monitoring. , 2015, 2015, 5215-8.		10
31	Spatial Characterization and Classification of Rectal Bleeding in Prostate Cancer Radiotherapy with a Voxel-Based Principal Components Analysis Model for 3D Dose Distribution. Lecture Notes in Computer Science, 2011, , 60-69.	1.0	10
32	Registration of dynamic multiview 2D ultrasound and late gadolinium enhanced images of the heart: Application to hypertrophic cardiomyopathy characterization. Medical Image Analysis, 2016, 28, 13-21.	7.0	9
33	Detection of bladder metabolic artifacts in 18F-FDG PET imaging. Computers in Biology and Medicine, 2016, 71, 77-85.	3.9	8
34	Synchronization and Registration of Cine Magnetic Resonance and Dynamic Computed Tomography Images of the Heart. IEEE Journal of Biomedical and Health Informatics, 2016, 20, 1369-1376.	3.9	8
35	Prostate whole-mount histology reconstruction and registration to MRI for correlating in-vivo observations with biological findings. , 2015, 2015, 2399-402.		7
36	Evaluation of inter-individual pelvic CT-scans registration. Irbm, 2011, 32, 288-292.	3.7	6

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37	The role of imaging in adaptive radiotherapy for head and neck cancer. <i>Irbm</i> , 2014, 35, 33-40.	3.7	6
38	Fusion of 3D real-time echocardiography and cine MRI using a saliency analysis. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2020, 15, 277-285.	1.7	6
39	Evaluation of non-rigid constrained CT/CBCT registration algorithms for delineation propagation in the context of prostate cancer radiotherapy. <i>Proceedings of SPIE</i> , 2013, , .	0.8	5
40	Pseudo-CT generation by conditional inference random forest for MRI-based radiotherapy treatment planning. , 2017, , .		5
41	Preterm Newborn Presence Detection in Incubator and Open Bed Using Deep Transfer Learning. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021, 25, 1419-1428.	3.9	5
42	A Surface-Volume Matching Process Using a Markov Random Field Model for Cardiac Motion Extraction in MSCT Imaging. <i>Lecture Notes in Computer Science</i> , 2005, , 457-466.	1.0	4
43	Data fusion of Left Ventricle Electro-Anatomical Mapping and Multislice Computerized Tomography. , 2009, , .		4
44	Spatial Nonparametric Mixed-Effects Model with Spatial-Varying Coefficients for Analysis of Populations. <i>Lecture Notes in Computer Science</i> , 2011, , 142-150.	1.0	4
45	Planning With Patient-Specific Rectal Sub-Region Constraints Decreases Probability of Toxicity in Prostate Cancer Radiotherapy. <i>Frontiers in Oncology</i> , 2020, 10, 1597.	1.3	4
46	Dose Monitoring in Prostate Cancer Radiotherapy Using CBCT to CT Constrained Elastic Image Registration. <i>Lecture Notes in Computer Science</i> , 2011, , 70-79.	1.0	4
47	A Tensor-Based Population Value Decomposition to Explain Rectal Toxicity after Prostate Cancer Radiotherapy. <i>Lecture Notes in Computer Science</i> , 2013, 16, 387-394.	1.0	4
48	Benefit of IMRT in High Dose Prostate Cancer Radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2010, 78, S352-S353.	0.4	3
49	Inter-individual organ-driven CT registration for dose mapping in prostate cancer radiotherapy. , 2012, , .		3
50	Investigating the contribution of pre- and per-treatment 18F-FDG PET-CT segmentation methodologies for post-treatment tumor recurrence prediction in cervical cancer. <i>Irbm</i> , 2013, 34, 274-277.	3.7	3
51	Slice correspondence estimation using SURF descriptors and context-based search for prostate whole-mount histology MRI registration. , 2016, 2016, 1163-1166.		3
52	Is Dose Deformationâ€“Invariance Hypothesis Verified in Prostate IGRT?. <i>International Journal of Radiation Oncology Biology Physics</i> , 2017, 97, 830-838.	0.4	3
53	Propagation of the MRI prostate delineation to the planning CT: A new matching contour framework. , 2013, , .		2
54	A new pencil beam model for photon dose calculations in heterogeneous media. <i>Physica Medica</i> , 2014, 30, 765-773.	0.4	2

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55	Dosimetric Benefit of Adaptive Radiation Therapy With Reduced Planning Target Volume Margins in Cervix Carcinoma. International Journal of Radiation Oncology Biology Physics, 2015, 93, E271-E272.	0.4	2
56	OC-0352: CBCT-guided evolutive library for cervix adaptive IMRT. Radiotherapy and Oncology, 2017, 123, S186-S187.	0.3	2
57	PO-1078: CBCT guided adaptive radiotherapy for cervix cancer: Uncertainty of the choice of the plan of the day. Radiotherapy and Oncology, 2018, 127, S606-S607.	0.3	2
58	Spatio-temporal Registration of 2D US and 3D MR Images for the Characterization of Hypertrophic Cardiomyopathy. Lecture Notes in Computer Science, 2013, , 292-299.	1.0	2
59	Cardiac function estimation for resynchronization therapy: Comparison between multislice-ct and speckle tracking imaging. , 2008, , .		1
60	A new deconvolution approach to robust fluence for intensity modulation under geometrical uncertainty. Physics in Medicine and Biology, 2013, 58, 6095-6110.	1.6	1
61	Evaluation of a motion artifacts removal approach on breath-hold cine-magnetic resonance images of hypertrophic cardiomyopathy subjects. , 2013, , .		1
62	Multi-modal data fusion for Cardiac Resynchronization Therapy planning and assistance. , 2015, 2015, 2391-4.		1
63	PO-0841: Feasibility of dose decrease in a rectal subregion predictive of bleeding in prostate radiotherapy. Radiotherapy and Oncology, 2017, 123, S454-S455.	0.3	1
64	Cardiac Cine-MRI/CT Registration for Interventions Planning. , 2019, , .		1
65	A new pencil beam model for photon dose calculations. , 2013, , .		0
66	Gradient Collinearity Method for Prostate MRI to CT Registration. International Journal of Radiation Oncology Biology Physics, 2014, 90, S438.	0.4	0
67	PO-0911: Optimal adaptive radiotherapy strategy in head and neck to spare the parotid glands. Radiotherapy and Oncology, 2016, 119, S439-S440.	0.3	0
68	PO-1017: Dose guided adaptive radiotherapy based on cumulated dose in OAR for prostate cancer. Radiotherapy and Oncology, 2017, 123, S561-S562.	0.3	0
69	Multimodal Image Fusion for Cardiac Resynchronization Therapy Planning. , 2018, , 67-82.		0
70	Treatment plan library based on population shape analysis for cervical adaptive radiotherapy. , 2018, , .		0