Edward Castillo

List of Publications by Year
in descending order

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50 papers	2,314 citations	331538 21 h-index	243529 44 g-index
50 all docs	50 docs citations	50 times ranked	1780 citing authors

#	Article	IF	Citations
1	A framework for evaluation of deformable image registration spatial accuracy using large landmark point sets. Physics in Medicine and Biology, 2009, 54, 1849-1870.	1.6	489
2	Four-dimensional deformable image registration using trajectory modeling. Physics in Medicine and Biology, 2010, 55, 305-327.	1.6	207
3	Dynamic ventilation imaging from four-dimensional computed tomography. Physics in Medicine and Biology, 2006, 51, 777-791.	1.6	206
4	Ventilation from four-dimensional computed tomography: density versus Jacobian methods. Physics in Medicine and Biology, 2010, 55, 4661-4685.	1.6	155
5	Quantification of regional ventilation from treatment planning CT. International Journal of Radiation Oncology Biology Physics, 2005, 62, 630-634.	0.4	149
6	Use of 4-Dimensional Computed Tomography-Based Ventilation Imaging to Correlate Lung Dose and Function With Clinical Outcomes. International Journal of Radiation Oncology Biology Physics, 2013, 86, 366-371.	0.4	102
7	A reference dataset for deformable image registration spatial accuracy evaluation using the COPDgene study archive. Physics in Medicine and Biology, 2013, 58, 2861-2877.	1.6	97
8	Hyperpolarized 3He Magnetic Resonance Imaging. Academic Radiology, 2012, 19, 1546-1553.	1.3	78
9	Association of anticoagulation dose and survival in hospitalized COVIDâ€19 patients: A retrospective propensity scoreâ€weighted analysis. European Journal of Haematology, 2021, 106, 165-174.	1.1	69
10	Use of weekly 4DCT-based ventilation maps to quantify changes in lung function for patients undergoing radiation therapy. Medical Physics, 2011, 39, 289-298.	1.6	64
11	Clinical Validation of 4-Dimensional Computed Tomography Ventilation With Pulmonary Function Test Data. International Journal of Radiation Oncology Biology Physics, 2015, 92, 423-429.	0.4	59
12	Spatial correspondence of 4D CT ventilation and SPECT pulmonary perfusion defects in patients with malignant airway stenosis. Physics in Medicine and Biology, 2012, 57, 1855-1871.	1.6	54
13	Evaluating the Toxicity Reduction With Computed Tomographic Ventilation Functional Avoidance Radiation Therapy. International Journal of Radiation Oncology Biology Physics, 2017, 99, 325-333.	0.4	52
14	Comparison of 4-Dimensional Computed Tomography Ventilation With Nuclear Medicine Ventilation-Perfusion Imaging: A Clinical Validation Study. International Journal of Radiation Oncology Biology Physics, 2014, 89, 199-205.	0.4	50
15	Evaluating Which Dose-Function Metrics Are Most Critical for Functional-Guided Radiation Therapy. International Journal of Radiation Oncology Biology Physics, 2017, 99, 202-209.	0.4	45
16	Least median of squares filtering of locally optimal point matches for compressible flow image registration. Physics in Medicine and Biology, 2012, 57, 4827-4833.	1.6	41
17	Regional Lung Function Profiles of Stage I and III Lung Cancer Patients: An Evaluation for Functional Avoidance Radiation Therapy. International Journal of Radiation Oncology Biology Physics, 2016, 95, 1273-1280.	0.4	39
18	Interim Analysis of a Two-Institution, Prospective Clinical Trial of 4DCT-Ventilation-based Functional Avoidance Radiation Therapy. International Journal of Radiation Oncology Biology Physics, 2018, 102, 1357-1365.	0.4	30

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19	The numerical stability of transformation-based CT ventilation. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 569-580.	1.7	29
20	A complete 4<scp>DCT</scp>â€ventilation functional avoidance virtual trial: Developing strategies for prospective clinical trials. Journal of Applied Clinical Medical Physics, 2017, 18, 144-152.	0.8	27
21	Evaluation of 4D CT acquisition methods designed to reduce artifacts. Journal of Applied Clinical Medical Physics, 2015, 16, 23-32.	0.8	25
22	Functional-guided radiotherapy using knowledge-based planning. Radiotherapy and Oncology, 2018, 129, 494-498.	0.3	24
23	Technical Note: Deriving ventilation imaging from 4DCTby deep convolutional neural network. Medical Physics, 2019, 46, 2323-2329.	1.6	23
24	Robust CT ventilation from the integral formulation of the Jacobian. Medical Physics, 2019, 46, 2115-2125.	1.6	22
25	Results of a Multi-Institutional Phase 2 Clinical Trial for 4DCT-Ventilation Functional Avoidance Thoracic Radiation Therapy. International Journal of Radiation Oncology Biology Physics, 2022, 112, 986-995.	0.4	19
26	Computing global minimizers to a constrained Bâ€spline image registration problem from optimal l₁ perturbations to block match data. Medical Physics, 2014, 41, 041904.	1.6	17
27	Deep convolutional neural networks for automatic segmentation of thoracic organsâ€atâ€risk in radiation oncology â€“ use of nonâ€domain transfer learning. Journal of Applied Clinical Medical Physics, 2020, 21, 108-113.	0.8	14
28	Quadratic penalty method for intensityâ€based deformable image registration and 4DCT lung motion recovery. Medical Physics, 2019, 46, 2194-2203.	1.6	13
29	Assessing the use of 4<scp>DCT</scp>â€ventilation in preâ€operative surgical lung cancer evaluation. Medical Physics, 2017, 44, 200-208.	1.6	12
30	Evaluating Positron Emission Tomography-Based Functional Imaging Changes in the Heart After Chemo-Radiation for Patients With Lung Cancer. International Journal of Radiation Oncology Biology Physics, 2020, 106, 1063-1070.	0.4	12
31	Therapeutic Anticoagulation Delays Death in COVID-19 Patients: Cross-Sectional Analysis of a Prospective Cohort. TH Open, 2020, 04, e263-e270.	0.7	11
32	Quantifying pulmonary perfusion from noncontrast computed tomography. Medical Physics, 2021, 48, 1804-1814.	1.6	10
33	Robust HUâ€based CT ventilation from an integrated mass conservation formulation. Medical Physics, 2019, 46, 5036-5046.	1.6	9
34	Characterizing Spatial Lung Function for Esophageal Cancer Patients Undergoing Radiation Therapy. International Journal of Radiation Oncology Biology Physics, 2019, 103, 738-746.	0.4	9
35	Severity of radiation pneumonitis, from clinical, dosimetric and biological features: a pilot study. Radiation Oncology, 2020, 15, 246.	1.2	9
36	Pulmonary blood mass dynamics on 4DCT during tidal breathing. Physics in Medicine and Biology, 2019, 64, 045014.	1.6	7

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37	An improved fuzzy c-means algorithm for brain MRI image segmentation. , 2016, , .		6
38	Technical Note: On the spatial correlation between robust CTâ€ventilation methods and SPECT ventilation. Medical Physics, 2020, 47, 5731-5738.	1.6	5
39	Characterizing spatial differences between SPECT-ventilation and SPECT-perfusion in patients with lung cancer undergoing radiotherapy. Radiotherapy and Oncology, 2021, 160, 120-124.	0.3	5
40	Using 4<scp>DCT</scp>â€ventilation to characterize lung function changes for pediatric patients getting thoracic radiotherapy. Journal of Applied Clinical Medical Physics, 2018, 19, 407-412.	0.8	3
41	Longitudinal Lung Compliance Imaging in Idiopathic Pulmonary Fibrosis. Radiology, 2019, 293, 272-272.	3.6	3
42	Dynamic lung compliance imaging from 4DCT-derived volume change estimation. Physics in Medicine and Biology, 2021, 66, 21NT06.	1.6	3
43	Cardiac metabolic changes on ¹⁸Fâ€positron emission tomography after thoracic radiotherapy predict for overall survival in esophageal cancer patients. Journal of Applied Clinical Medical Physics, 2023, 24, e13552.	0.8	3
44	GPU-accelerated block matching algorithm for deformable registration of lung CT images. , 2015, 2015, 292-295.		2
45	Automated identification and reduction of artifacts in cine four-dimensional computed tomography (4DCT) images using respiratory motion model. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 1521-1532.	1.7	2
46	An assessment of the correlation between robust CT-derived ventilation and pulmonary function test in a cohort with no respiratory symptoms. British Journal of Radiology, 2021, 94, 20201218.	1.0	2
47	Pulmonary Blood Mass and Quantitative Lung Function Imaging in Idiopathic Pulmonary Fibrosis. Radiology: Cardiothoracic Imaging, 2020, 2, e200003.	0.9	1
48	Functional avoidanceâ€based intensity modulated proton therapy with 4DCT derived ventilation imaging for lung cancer. Journal of Applied Clinical Medical Physics, 2021, 22, 276-285.	0.8	1
49	Differential Ventilation Pattern on Novel Functional Imaging in a Patient with Unilateral Bronchial Obstruction Caused by Adenoid Cystic Carcinoma. American Journal of Respiratory and Critical Care Medicine, 2020, 201, e6-e7.	2.5	0
50	A prospective study to validate pulmonary blood mass changes on non-contrast 4DCT in pulmonary embolism patients. Clinical Imaging, 2021, 78, 179-183.	0.8	0