Yu-chi Hu

List of Publications by Year
in descending order

38 papers	1,378 citations	567281 15 h-index	477307 29 g-index
38 all docs	38 docs citations	38 times ranked	1484 citing authors

#	Article	IF	Citations
1	Radiotherapy treatment planning for patients with non-small cell lung cancer using positron emission tomography (PET). Radiotherapy and Oncology, 2002, 62, 51-60.	0.6	321
2	Multiple Resolution Residually Connected Feature Streams for Automatic Lung Tumor Segmentation From CT Images. IEEE Transactions on Medical Imaging, 2019, 38, 134-144.	8.9	176
3	A patientâ€specific respiratory model of anatomical motion for radiation treatment planning. Medical Physics, 2007, 34, 4772-4781.	3.0	157
4	Treatment planning for prostate implants using magnetic-resonance spectroscopy imaging. International Journal of Radiation Oncology Biology Physics, 2000, 47, 1085-1096.	0.8	131
5	Tumor-Aware, Adversarial Domain Adaptation from CT to MRI for Lung Cancer Segmentation. Lecture Notes in Computer Science, 2018, 11071, 777-785.	1.3	104
6	Correction of motion artifacts in coneâ€beam CT using a patientâ€specific respiratory motion model. Medical Physics, 2010, 37, 2901-2909.	3.0	97
7	Automated Finite-Element Analysis for Deformable Registration of Prostate Images. IEEE Transactions on Medical Imaging, 2007, 26, 1379-1390.	8.9	49
8	Crossâ€modality (CTâ€MRI) prior augmented deep learning for robust lung tumor segmentation from small MR datasets. Medical Physics, 2019, 46, 4392-4404.	3.0	42
9	Reduction of irregular breathing artifacts in respirationâ€correlated CT images using a respiratory motion model. Medical Physics, 2012, 39, 3070-3079.	3.0	35
10	Toward predicting the evolution of lung tumors during radiotherapy observed on a longitudinal MR imaging study via a deep learning algorithm. Medical Physics, 2019, 46, 4699-4707.	3.0	34
11	Predictive Treatment Management: Incorporating a Predictive Tumor Response Model Into Robust Prospective Treatment Planning for Non-Small Cell Lung Cancer. International Journal of Radiation Oncology Biology Physics, 2014, 88, 446-452.	0.8	30
12	Segmenting lung tumors on longitudinal imaging studies via a patient-specific adaptive convolutional neural network. Radiotherapy and Oncology, 2019, 131, 101-107.	0.6	27
13	PSIGAN: Joint Probabilistic Segmentation and Image Distribution Matching for Unpaired Cross-Modality Adaptation-Based MRI Segmentation. IEEE Transactions on Medical Imaging, 2020, 39, 4071-4084.	8.9	27
14	Quantification of accumulated dose and associated anatomical changes of esophagus using weekly Magnetic Resonance Imaging acquired during radiotherapy of locally advanced lung cancer. Physics and Imaging in Radiation Oncology, 2020, 13, 36-43.	2.9	18
15	Interactive semiautomatic contour delineation using statistical conditional random fields framework. Medical Physics, 2012, 39, 4547-4558.	3.0	17
16	A geometric atlas to predict lung tumor shrinkage for radiotherapy treatment planning. Physics in Medicine and Biology, 2017, 62, 702-714.	3.0	15
17	Library of deep-learning image segmentation and outcomes model-implementations. Physica Medica, 2020, 73, 190-196.	0.7	15
18	Evaluation of tumor localization in respiration motionâ€corrected coneâ€beam CT: Prospective study in lung. Medical Physics, 2014, 41, 101918.	3.0	12

#	Article	IF	Citations
19	The measurement of three dimensional dose distribution of a ruthenium-106 ophthalmological applicator using magnetic resonance imaging of BANG polymer gels1. Journal of Applied Clinical Medical Physics, 2001, 2, 85-89.	1.9	9
20	Gamma/X-ray linear pushbroom stereo for 3D cargo inspection. Machine Vision and Applications, 2010, 21, 413-425.	2.7	9
21	Self-derived organ attention for unpaired CT-MRI deep domain adaptation based MRI segmentation. Physics in Medicine and Biology, 2020, 65, 205001.	3.0	9
22	Evaluation of respiratory motion-corrected cone-beam CT at end expiration in abdominal radiotherapy sites: a prospective study. Acta OncolÃ³gica, 2018, 57, 1017-1024.	1.8	7
23	Predicting spatial esophageal changes in a multimodal longitudinal imaging study via a convolutional recurrent neural network. Physics in Medicine and Biology, 2020, 65, 235027.	3.0	7
24	Evaluation of the tumor registration error in biopsy procedures performed under realâ€time PET/CT guidance. Medical Physics, 2017, 44, 5089-5095.	3.0	5
25	Predictive dose accumulation for HN adaptive radiotherapy. Physics in Medicine and Biology, 2020, 65, 235011.	3.0	4
26	Deep learning driven predictive treatment planning for adaptive radiotherapy of lung cancer. Radiotherapy and Oncology, 2022, 169, 57-63.	0.6	4
27	Stereo Matching and 3D Visualization for Gamma-Ray Cargo Inspection. , 2007, , .		3
28	Fast radioactive seed localization in intraoperative cone beam CT for low-dose-rate prostate brachytherapy. , 2013, , .		3
29	Multi-class medical image segmentation using one-vs-rest graph cuts and majority voting. Journal of Medical Imaging, 2021, 8, 034003.	1.5	3
30	Deformation driven Seq2Seq longitudinal tumor and organsâ€atâ€risk prediction for radiotherapy. Medical Physics, 2021, 48, 4784-4798.	3.0	3
31	The measurement of three dimensional dose distribution of a ruthenium-106 ophthalmological applicator using magnetic resonance imaging of BANG polymer gels. , 0, , .		2
32	Gamma/x-ray linear pushbroom stereo for 3D cargo inspection. , 2006, , .		2
33	Semiautomatic tumor segmentation with multimodal images in a conditional random field framework. Journal of Medical Imaging, 2016, 3, 024503.	1.5	1
34	Fast graph-based medical image segmentation with expert guided statistical information. , 2010, , .		0
35	Tumor segmentation with multi-modality image in Conditional Random Field framework with logistic regression models. , 2014, 2014, 6450-4.		0
36	In Reply to Sabour. International Journal of Radiation Oncology Biology Physics, 2021, 110, 915-916.	0.8	0

#	Article	IF	Citations
37	Automatically Tracking and Detecting Significant Nodal Mass Shrinkage During Head-and-Neck Radiation Treatment Using Image Saliency. Lecture Notes in Computer Science, 2019, , 18-25.	1.3	0
38	Longitudinal Prediction of Radiation-Induced Anatomical Changes of Parotid Glands During Radiotherapy Using Deep Learning. Lecture Notes in Computer Science, 2020, , 123-132.	1.3	0