

Daisuke Kawahara

List of Publications by Year in descending order

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55
papers

431
citations

840776

11
h-index

996975

15
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61
all docs

61
docs citations

61
times ranked

325
citing authors

#	ARTICLE	IF	CITATIONS
1	Detecting MLC modeling errors using radiomics-based machine learning in patient-specific QA with an EPID for intensity-modulated radiation therapy. <i>Medical Physics</i> , 2021, 48, 991-1002.	3.0	26
2	Marginal prescription equivalent to the isocenter prescription in lung stereotactic body radiotherapy: preliminary study for Japan Clinical Oncology Group trial (JCOG1408). <i>Journal of Radiation Research</i> , 2017, 58, 149-154.	1.6	20
3	T1-weighted and T2-weighted MRI image synthesis with convolutional generative adversarial networks. <i>Reports of Practical Oncology and Radiotherapy</i> , 2021, 26, 35-42.	0.6	20
4	Predicting the Local Response of Metastatic Brain Tumor to Gamma Knife Radiosurgery by Radiomics With a Machine Learning Method. <i>Frontiers in Oncology</i> , 2020, 10, 569461.	2.8	20
5	Prediction of radiation pneumonitis after definitive radiotherapy for locally advanced non-small cell lung cancer using multi-region radiomics analysis. <i>Scientific Reports</i> , 2021, 11, 16232.	3.3	19
6	Image synthesis of monoenergetic CT image in dual-energy CT using kilovoltage CT with deep convolutional generative adversarial networks. <i>Journal of Applied Clinical Medical Physics</i> , 2021, 22, 184-192.	1.9	16
7	Dosimetric impact of Lipiodol in stereotactic body radiation therapy on liver after transarterial chemoembolization. <i>Medical Physics</i> , 2017, 44, 342-348.	3.0	15
8	Tolerance levels of CT number to electron density table for photon beam in radiotherapy treatment planning system. <i>Journal of Applied Clinical Medical Physics</i> , 2018, 19, 271-275.	1.9	15
9	Image synthesis with deep convolutional generative adversarial networks for material decomposition in dual-energy CT from a kilovoltage CT. <i>Computers in Biology and Medicine</i> , 2021, 128, 104111.	7.0	15
10	Availability of applying diaphragm matching with the breath-holding technique in stereotactic body radiation therapy for liver tumors. <i>Physica Medica</i> , 2016, 32, 557-561.	0.7	13
11	A prediction model for degree of differentiation for resectable locally advanced esophageal squamous cell carcinoma based on CT images using radiomics and machine-learning. <i>British Journal of Radiology</i> , 2021, 94, 20210525.	2.2	13
12	Interfractional diaphragm changes during breath-holding in stereotactic body radiotherapy for liver cancer. <i>Reports of Practical Oncology and Radiotherapy</i> , 2018, 23, 84-90.	0.6	12
13	Predicting the Local Response of Esophageal Squamous Cell Carcinoma to Neoadjuvant Chemoradiotherapy by Radiomics with a Machine Learning Method Using 18F-FDG PET Images. <i>Diagnostics</i> , 2021, 11, 1049.	2.6	12
14	Absorbed dose and image quality of Varian TrueBeam CBCT compared with OBI CBCT. <i>Physica Medica</i> , 2016, 32, 1628-1633.	0.7	11
15	Development of a CT number calibration audit phantom in photon radiation therapy: A pilot study. <i>Medical Physics</i> , 2020, 47, 1509-1522.	3.0	11
16	Development of a radiomics and machine learning model for predicting occult cervical lymph node metastasis in patients with tongue cancer. <i>Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology</i> , 2022, 134, 93-101.	0.4	11
17	Relative biological effectiveness study of Lipiodol based on microdosimetric-kinetic model. <i>Physica Medica</i> , 2018, 46, 89-95.	0.7	10
18	Effect of dose-delivery time for flattened and flattening filter-free photon beams based on microdosimetric kinetic model. <i>PLoS ONE</i> , 2018, 13, e0206673.	2.5	10

#	ARTICLE	IF	CITATIONS
19	Predictive gamma passing rate for three-dimensional dose verification with finite detector elements via improved dose uncertainty potential accumulation model. <i>Medical Physics</i> , 2020, 47, 1349-1356.	3.0	9
20	Dose compensation based on biological effectiveness due to interruption time for photon radiation therapy. <i>British Journal of Radiology</i> , 2020, 93, 20200125.	2.2	9
21	Deep learning-based auto segmentation using generative adversarial network on magnetic resonance images obtained for head and neck cancer patients. <i>Journal of Applied Clinical Medical Physics</i> , 2022, 23, e13579.	1.9	9
22	Accuracy of the raw-data-based effective atomic numbers and monochromatic CT numbers for contrast medium with a dual-energy CT technique. <i>British Journal of Radiology</i> , 2018, 91, 20170524.	2.2	8
23	Metal artifact reduction techniques for single energy CT and dual-energy CT with various metal materials. <i>BJR Open</i> , 2019, 1, bjro.20180045.	0.6	8
24	Tolerance levels of mass density for CT number calibration in photon radiation therapy. <i>Journal of Applied Clinical Medical Physics</i> , 2019, 20, 45-52.	1.9	8
25	Analysis of cardiac toxicity after definitive chemoradiotherapy for esophageal cancer using a biological dose-volume histogram. <i>Journal of Radiation Research</i> , 2020, 61, 298-306.	1.6	8
26	Evaluation of optimization workflow using custom-made planning through predicted dose distribution for head and neck tumor treatment. <i>Physica Medica</i> , 2020, 80, 167-174.	0.7	8
27	Split-VMAT technique to control the expiratory breath-hold time in liver stereotactic body radiation therapy. <i>Physica Medica</i> , 2017, 40, 17-23.	0.7	7
28	A novel verification method using a plastic scintillator imaging system for assessment of gantry sag in radiotherapy. <i>Medical Physics</i> , 2018, 45, 2411-2424.	3.0	7
29	Synthesized effective atomic numbers for commercially available dual-energy CT. <i>Reports of Practical Oncology and Radiotherapy</i> , 2020, 25, 692-697.	0.6	6
30	Optimization of irradiation interval for fractionated stereotactic radiosurgery by a cellular automata model with reoxygenation effects. <i>Physics in Medicine and Biology</i> , 2020, 65, 085008.	3.0	6
31	Stepwise deep neural network (stepwise-net) for head and neck auto-segmentation on CT images. <i>Computers in Biology and Medicine</i> , 2022, 143, 105295.	7.0	6
32	Potential benefits of volumetric modulated arc therapy to reduce the incidence of grade 2 radiation pneumonitis in radiotherapy for locally advanced non-small cell lung cancer patients. <i>Japanese Journal of Clinical Oncology</i> , 2021, 51, 1729-1735.	1.3	5
33	Energy spectrum and dose enhancement due to the depth of the Lipiodol position using flattened and unflattened beams. <i>Reports of Practical Oncology and Radiotherapy</i> , 2018, 23, 50-56.	0.6	4
34	Automatic contrast medium extraction system using electron density data with dual-energy CT. <i>British Journal of Radiology</i> , 2018, 91, 20180396.	2.2	4
35	Evaluation of raw-data-based and calculated electron density for contrast media with a dual-energy CT technique. <i>Reports of Practical Oncology and Radiotherapy</i> , 2019, 24, 499-506.	0.6	4
36	A novel risk analysis of clinical reference dosimetry based on failure modes and effects analysis. <i>Physica Medica</i> , 2019, 58, 59-65.	0.7	4

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37	Radiobiological effects of the interruption time with Monte Carlo Simulation on multiple fields in photon beams. <i>Journal of Applied Clinical Medical Physics</i> , 2020, 21, 288-294.	1.9	4
38	Improved cellular automata model shows that indirect apoptotic cell death due to vascular damage enhances the local control of tumors by single fraction high-dose irradiation. <i>Biomedical Physics and Engineering Express</i> , 2022, 8, 015028.	1.2	4
39	Photon and electron backscatter dose and energy spectrum analysis around Lipiodol using flattened and unflattened beams. <i>Journal of Applied Clinical Medical Physics</i> , 2019, 20, 178-183.	1.9	3
40	Assessment of biological dosimetric margin for stereotactic body radiation therapy. <i>Journal of Applied Clinical Medical Physics</i> , 2020, 21, 31-41.	1.9	3
41	Formulation of objective indices to quantify machine failure risk analysis for interruptions in radiotherapy. <i>Journal of Applied Clinical Medical Physics</i> , 2021, 22, 165-173.	1.9	3
42	A prediction model for pathological findings after neoadjuvant chemoradiotherapy for resectable locally advanced esophageal squamous cell carcinoma based on endoscopic images using deep learning. <i>British Journal of Radiology</i> , 2022, 95, 20210934.	2.2	3
43	Effect of secondary electron generation on dose enhancement in Lipiodol with and without a flattening filter. <i>Journal of Applied Clinical Medical Physics</i> , 2018, 19, 211-217.	1.9	2
44	Concurrent chemoradiotherapy for locally advanced squamous cell carcinoma of the cervix in a uterus didelphys with vaginal septum. <i>Journal of Contemporary Brachytherapy</i> , 2019, 11, 180-188.	0.9	2
45	Calculated relative biological effectiveness (RBE) for initial DNA double-strand breaks (DSB) from flattening filter and flattening filter-free 6 MV X-ray fields. <i>BJR Open</i> , 2021, 3, 20200072.	0.6	2
46	Reduction of margin to compensate the respiratory tumor motion by the analysis of dosimetric internal target volume in lung SBRT with nonuniform volume prescription method. <i>Medical Physics</i> , 2021, 48, 3200-3207.	3.0	2
47	Efficacy and tolerability of preoperative chemoradiotherapy with S-1 alone for locally advanced rectal cancer. <i>Journal of Radiation Research</i> , 2021, 62, 300-308.	1.6	2
48	Biological dose-enhancement analysis with Monte Carlo simulation for Lipiodol for photon beams. <i>Reports of Practical Oncology and Radiotherapy</i> , 2019, 24, 681-687.	0.6	1
49	A Single Institution's Experience of Definitive Radiotherapy Using Volumetric-modulated Arc Therapy for Hypopharyngeal Cancers. <i>Anticancer Research</i> , 2020, 40, 4183-4190.	1.1	1
50	Long-term outcomes of induction chemotherapy followed by chemoradiotherapy using volumetric-modulated arc therapy as an organ preservation approach in patients with stage IVA-B oropharyngeal or hypopharyngeal cancers. <i>Journal of Radiation Research</i> , 2020, 61, 554-562.	1.6	1
51	Evaluation of metal artefact techniques with same contrast scale for different commercially available dual-energy computed tomography scanners. <i>Physical and Engineering Sciences in Medicine</i> , 2020, 43, 539-546.	2.4	1
52	A prediction model for pathological findings after neoadjuvant chemoradiotherapy for resectable locally advanced esophageal cancer based on PET images using radiomics and machine-learning. <i>Journal of Clinical Oncology</i> , 2020, 38, 456-456.	1.6	1
53	Impact of reduction of flux overlap region on kilovoltage cone-beam computed tomography image quality and patients' exposure dose. <i>Reports of Practical Oncology and Radiotherapy</i> , 2016, 21, 460-465.	0.6	0
54	Evaluation of beam modeling for small fields using a flattening filter-free beam. <i>Radiological Physics and Technology</i> , 2017, 10, 33-40.	1.9	0

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55	Improving automatic contrast agent extraction system using monochromatic CT number. Australasian Physical and Engineering Sciences in Medicine, 2019, 42, 819-826.	1.3	0