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Selective robust optimization: A new intensity-modulated proton therapy optimization strategy

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Medical Physics, 2015, 42, 4840-7.

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#	Paper	IF	Citations
32	Beam angle evaluation to improve inter-fraction motion robustness in pelvic lymph node irradiation with proton therapy. <i>Acta Oncologica</i> , 2017 , 56, 846-852	3.2	6
31	Frontiers in planning optimization for lung SBRT. <i>Physica Medica</i> , 2017 , 44, 163-170	2.7	17
30	Adaptation is mandatory for intensity modulated proton therapy of advanced lung cancer to ensure target coverage. <i>Radiotherapy and Oncology</i> , 2017 , 122, 400-405	5.3	39
29	Superiority in Robustness of Multifield Optimization Over Single-Field Optimization for Pencil-Beam Proton Therapy for Oropharynx Carcinoma: An Enhanced Robustness Analysis. <i>International Journal of Radiation Oncology Biology Physics</i> , 2017 , 99, 738-749	4	17
28	Impact of robust treatment planning on single- and multi-field optimized plans for proton beam therapy of unilateral head and neck target volumes. <i>Radiation Oncology</i> , 2017 , 12, 190	4.2	19
27	Multiple-CT optimization of intensity-modulated proton therapy - Is it possible to eliminate adaptive planning?. <i>Radiotherapy and Oncology</i> , 2018 , 128, 167-173	5.3	19
26	Advanced Treatment Planning. <i>Medical Physics</i> , 2018 , 45, e1011-e1023	4.4	9
25	Robust radiotherapy planning. <i>Physics in Medicine and Biology</i> , 2018 , 63, 22TR02	3.8	75
24	Estimation of the risk for radiation-induced liver disease following photon- or proton-beam radiosurgery of liver metastases. <i>Radiation Oncology</i> , 2018 , 13, 206	4.2	3
23	A robust intensity modulated proton therapy optimizer based on Monte Carlo dose calculation. <i>Medical Physics</i> , 2018 , 45, 4045	4.4	12
22	Statistical evaluation of worst-case robust optimization intensity-modulated proton therapy plans using an exhaustive sampling approach. <i>Radiation Oncology</i> , 2019 , 14, 129	4.2	4
21	A comprehensive dosimetric study of Monte Carlo and pencil-beam algorithms on intensity-modulated proton therapy for breast cancer. <i>Journal of Applied Clinical Medical Physics</i> , 2019 , 20, 128-136	2.3	17
20	Robust beam orientation optimization for intensity-modulated proton therapy. <i>Medical Physics</i> , 2019 , 46, 3356-3370	4.4	13
19	The impact of dose algorithms on tumor control probability in intensity-modulated proton therapy for breast cancer. <i>Physica Medica</i> , 2019 , 61, 52-57	2.7	3
18	Clinical outcomes after intensity-modulated proton therapy with concurrent chemotherapy for inoperable non-small cell lung cancer. <i>Radiotherapy and Oncology</i> , 2019 , 136, 136-142	5.3	12
17	Effect of setup and inter-fraction anatomical changes on the accumulated dose in CT-guided breath-hold intensity modulated proton therapy of liver malignancies. <i>Radiotherapy and Oncology</i> , 2019 , 134, 101-109	5.3	8
16	Robust optimization for intensity-modulated proton therapy with soft spot sensitivity regularization. <i>Medical Physics</i> , 2019 , 46, 1408-1425	4.4	7

15	Comparative treatment planning study for mediastinal Hodgkin's lymphoma: impact on normal tissue dose using deep inspiration breath hold proton and photon therapy. <i>Acta Oncologica</i> , 2019 , 58, 95-104	3.2	18
14	Multiple-CT optimization: An adaptive optimization method to account for anatomical changes in intensity-modulated proton therapy for head and neck cancers. <i>Radiotherapy and Oncology</i> , 2020 , 142, 124-132	5.3	13
13	Inter-fraction robustness of intensity-modulated proton therapy in the post-operative treatment of oropharyngeal and oral cavity squamous cell carcinomas. <i>British Journal of Radiology</i> , 2020 , 93, 20190638	3.4	7
12	Quantification of plan robustness against different uncertainty sources for classical and anatomical robust optimized treatment plans in head and neck cancer proton therapy. <i>British Journal of Radiology</i> , 2020 , 93, 20190573	3.4	2
11	Volumetric modulated arc therapy versus intensity-modulated proton therapy in the postoperative irradiation of thymoma. <i>Journal of Cancer Research and Clinical Oncology</i> , 2020 , 146, 2267-2276	4.9	3
10	A fast robust optimizer for intensity modulated proton therapy using GPU. <i>Journal of Applied Clinical Medical Physics</i> , 2020 , 21, 123-133	2.3	
9	Heart and Cardiac Substructure Dose Sparing in Synchronous Bilateral Breast Radiotherapy: A Dosimetric Study of Proton and Photon Radiation Therapy. <i>Frontiers in Oncology</i> , 2019 , 9, 1456	5.3	15
8	Principles of intensity-modulated proton therapy treatment planning. 2021 , 56-79.e4		1
7	A Review of the Robust Optimization Process and Advances with Monte Carlo in the Proton Therapy Management of Head and Neck Tumors. <i>International Journal of Particle Therapy</i> , 2021 , 8, 14-24	1.5	0
6	Proton Therapy in Lower-Middle-Income Countries: From Facts and Reality to Desire, Challenges and Limitations.		
5	Uniform versus non-uniform dose prescription for proton stereotactic body radiotherapy of liver tumors investigated by extensive motion-including treatment simulations. <i>Physics in Medicine and Biology</i> , 2021 , 66,	3.8	0
4	Robust Optimization for Intensity Modulated Proton Therapy Plans with Multi-Isocenter Large Fields. <i>International Journal of Particle Therapy</i> , 2016 , 3, 305-311	1.5	7
3	Proton reirradiation for recurrent or new primary breast cancer in the setting of prior breast irradiation. <i>Radiotherapy and Oncology</i> , 2021 , 165, 142-151	5.3	1
2	Applications of nanodosimetry in particle therapy planning and beyond. <i>Physics in Medicine and Biology</i> , 2021 , 66,	3.8	1
1	Impact of dose calculation accuracy on inverse linear energy transfer optimization for intensity-modulated proton therapy.		0