

Sebastiaan Breedveld

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

1,834
citations

257101

24
h-index

264894

42
g-index

58
all docs

58
docs citations

58
times ranked

1109
citing authors

#	ARTICLE	IF	CITATIONS
1	TBS-BAO: fully automated beam angle optimization for IMRT guided by a total-beam-space reference plan. <i>Physics in Medicine and Biology</i> , 2022, 67, 035004.	1.6	5
2	Automated multi-criterial planning with beam angle optimization to establish non-coplanar VMAT class solutions for nasopharyngeal carcinoma. <i>Physica Medica</i> , 2022, 101, 20-27.	0.4	2
3	Complementing Prostate SBRT VMAT With a Two-Beam Non-Coplanar IMRT Class Solution to Enhance Rectum and Bladder Sparing With Minimum Increase in Treatment Time. <i>Frontiers in Oncology</i> , 2021, 11, 620978.	1.3	4
4	On the Importance of Individualized, Non-Coplanar Beam Configurations in Mediastinal Lymphoma Radiotherapy, Optimized With Automated Planning. <i>Frontiers in Oncology</i> , 2021, 11, 619929.	1.3	9
5	Pre-clinical validation of a novel system for fully-automated treatment planning. <i>Radiotherapy and Oncology</i> , 2021, 158, 253-261.	0.3	24
6	Robust dose-painting-by-numbers vs. nonselective dose escalation for non-small cell lung cancer patients. <i>Medical Physics</i> , 2021, 48, 3096-3108.	1.6	3
7	Fully automated treatment planning for MLC-based robotic radiotherapy. <i>Medical Physics</i> , 2021, 48, 4139-4147.	1.6	9
8	MR-Linac Radiotherapy – The Beam Angle Selection Problem. <i>Frontiers in Oncology</i> , 2021, 11, 717681.	1.3	7
9	Enhancing Radiotherapy for Locally Advanced Non-Small Cell Lung Cancer Patients with iCE, a Novel System for Automated Multi-Criterial Treatment Planning Including Beam Angle Optimization. <i>Cancers</i> , 2021, 13, 5683.	1.7	8
10	Evaluation of alternative parameter settings for dose restoration and full plan adaptation in IMPT for prostate cancer. <i>Physica Medica</i> , 2021, 92, 15-23.	0.4	0
11	Online-adaptive versus robust IMPT for prostate cancer: How much can we gain?. <i>Radiotherapy and Oncology</i> , 2020, 151, 228-233.	0.3	12
12	Reducing the Risk of Secondary Lung Cancer in Treatment Planning of Accelerated Partial Breast Irradiation. <i>Frontiers in Oncology</i> , 2020, 10, 1445.	1.3	5
13	Dose prediction with deep learning for prostate cancer radiation therapy: Model adaptation to different treatment planning practices. <i>Radiotherapy and Oncology</i> , 2020, 153, 228-235.	0.3	45
14	Accurate 3D-dose-based generation of MLC segments for robotic radiotherapy. <i>Physics in Medicine and Biology</i> , 2020, 65, 175011.	1.6	4
15	First system for fully-automated multi-criterial treatment planning for a high-magnetic field MR-Linac applied to rectal cancer. <i>Acta Oncologica</i> , 2020, 59, 926-932.	0.8	17
16	Automated Radiotherapy Planning for Patient-Specific Exploration of the Trade-Off Between Tumor Dose Coverage and Predicted Radiation-Induced Toxicity – A Proof of Principle Study for Prostate Cancer. <i>Frontiers in Oncology</i> , 2020, 10, 943.	1.3	8
17	Automatic configuration of the reference point method for fully automated multi-objective treatment planning applied to oropharyngeal cancer. <i>Medical Physics</i> , 2020, 47, 1499-1508.	1.6	3
18	Fast and fully-automated multi-criterial treatment planning for adaptive HDR brachytherapy for locally advanced cervical cancer. <i>Radiotherapy and Oncology</i> , 2020, 148, 143-150.	0.3	20

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19	Plan-library supported automated replanning for online-adaptive intensity-modulated proton therapy of cervical cancer. <i>Acta Oncol</i> , 2019, 58, 1440-1445.	0.8	16
20	Fast automated multi-criteria planning for HDR brachytherapy explored for prostate cancer. <i>Physics in Medicine and Biology</i> , 2019, 64, 205002.	1.6	18
21	Fast and exact Hessian computation for a class of nonlinear functions used in radiation therapy treatment planning. <i>Physics in Medicine and Biology</i> , 2019, 64, 16NT01.	1.6	2
22	Automated prioritised 3D dose-based MLC segment generation for step-and-shoot IMRT. <i>Physics in Medicine and Biology</i> , 2019, 64, 165013.	1.6	6
23	Individualized automated planning for dose bath reduction in robotic radiosurgery for benign tumors. <i>PLoS ONE</i> , 2019, 14, e0210279.	1.1	5
24	Multi-criteria optimization and decision-making in radiotherapy. <i>European Journal of Operational Research</i> , 2019, 277, 1-19.	3.5	55
25	Automatically configuring the reference point method for automated multi-objective treatment planning. <i>Physics in Medicine and Biology</i> , 2019, 64, 035002.	1.6	7
26	Automated volumetric modulated arc therapy planning for whole pelvic prostate radiotherapy. <i>Strahlentherapie Und Onkologie</i> , 2018, 194, 333-342.	1.0	32
27	Fully automated, multi-criterial planning for Volumetric Modulated Arc Therapy – An international multi-center validation for prostate cancer. <i>Radiotherapy and Oncology</i> , 2018, 128, 343-348.	0.3	62
28	First fully automated planning solution for robotic radiosurgery – comparison with automatically planned volumetric arc therapy for prostate cancer. <i>Acta Oncol</i> , 2018, 57, 1490-1498.	0.8	24
29	An automated planning strategy for near real-time adaptive proton therapy in prostate cancer. <i>Physics in Medicine and Biology</i> , 2018, 63, 135017.	1.6	32
30	Automated VMAT planning for postoperative adjuvant treatment of advanced gastric cancer. <i>Radiation Oncology</i> , 2018, 13, 74.	1.2	18
31	Late toxicity in the randomized multicenter HYPRO trial for prostate cancer analyzed with automated treatment planning. <i>Radiotherapy and Oncology</i> , 2018, 128, 349-356.	0.3	16
32	Fully automated treatment planning of spinal metastases – A comparison to manual planning of Volumetric Modulated Arc Therapy for conventionally fractionated irradiation. <i>Radiation Oncology</i> , 2017, 12, 33.	1.2	28
33	Individualized Selection of Beam Angles and Treatment Isocenter in Tangential Breast Intensity Modulated Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2017, 98, 447-453.	0.4	12
34	Fast and fuzzy multi-objective radiotherapy treatment plan generation for head and neck cancer patients with the lexicographic reference point method (LRPM). <i>Physics in Medicine and Biology</i> , 2017, 62, 4318-4332.	1.6	18
35	Lexicographic extension of the reference point method applied in radiation therapy treatment planning. <i>European Journal of Operational Research</i> , 2017, 263, 247-257.	3.5	19
36	Near real-time automated dose restoration in IMPT to compensate for daily tissue density variations in prostate cancer. <i>Physics in Medicine and Biology</i> , 2017, 62, 4254-4272.	1.6	37

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37	VMAT plus a few computer-optimized non-coplanar IMRT beams (VMAT+) tested for liver SBRT. <i>Radiotherapy and Oncology</i> , 2017, 123, 49-56.	0.3	24
38	Data for TROTS – The Radiotherapy Optimisation Test Set. <i>Data in Brief</i> , 2017, 12, 143-149.	0.5	29
39	Impact of model and dose uncertainty on model-based selection of oropharyngeal cancer patients for proton therapy. <i>Acta Oncologica</i> , 2017, 56, 1444-1450.	0.8	33
40	The impact of treatment accuracy on proton therapy patient selection for oropharyngeal cancer patients. <i>Radiotherapy and Oncology</i> , 2017, 125, 520-525.	0.3	26
41	An interior-point implementation developed and tuned for radiation therapy treatment planning. <i>Computational Optimization and Applications</i> , 2017, 68, 209-242.	0.9	25
42	Evaluation of plan quality assurance models for prostate cancer patients based on fully automatically generated Pareto-optimal treatment plans. <i>Physics in Medicine and Biology</i> , 2016, 61, 4268-4282.	1.6	23
43	Validation of Fully Automated VMAT Plan Generation for Library-Based Plan-of-the-Day Cervical Cancer Radiotherapy. <i>PLoS ONE</i> , 2016, 11, e0169202.	1.1	55
44	Noncoplanar Beam Angle Class Solutions to Replace Time-Consuming Patient-Specific Beam Angle Optimization in Robotic Prostate Stereotactic Body Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2015, 92, 762-770.	0.4	16
45	Comparison of VMAT and IMRT strategies for cervical cancer patients using automated planning. <i>Radiotherapy and Oncology</i> , 2015, 114, 395-401.	0.3	80
46	Fully Automated Volumetric Modulated Arc Therapy Plan Generation for Prostate Cancer Patients. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014, 88, 1175-1179.	0.4	115
47	Adaptive Liver Stereotactic Body Radiation Therapy: Automated Daily Plan Reoptimization Prevents Dose Delivery Degradation Caused by Anatomy Deformations. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013, 87, 1016-1021.	0.4	21
48	Toward Fully Automated Multicriterial Plan Generation: A Prospective Clinical Study. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013, 85, 866-872.	0.4	128
49	Automated generation of IMRT treatment plans for prostate cancer patients with metal hip prostheses: Comparison of different planning strategies. <i>Medical Physics</i> , 2013, 40, 071704.	1.6	25
50	Integrated multicriterial optimization of beam angles and intensity profiles for coplanar and noncoplanar head and neck IMRT and implications for VMAT. <i>Medical Physics</i> , 2012, 39, 4858-4865.	1.6	51
51	iCycle: Integrated, multicriterial beam angle, and profile optimization for generation of coplanar and noncoplanar IMRT plans. <i>Medical Physics</i> , 2012, 39, 951-963.	1.6	256
52	On the beam direction search space in computerized non-coplanar beam angle optimization for IMRT – prostate SBRT. <i>Physics in Medicine and Biology</i> , 2012, 57, 5441-5458.	1.6	56
53	Variable Circular Collimator in Robotic Radiosurgery: A Time-Efficient Alternative to a Mini-Multileaf Collimator?. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011, 81, 863-870.	0.4	29
54	Shortening treatment time in robotic radiosurgery using a novel node reduction technique. <i>Medical Physics</i> , 2011, 38, 1397-1405.	1.6	15

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55	The equivalence of multi-criteria methods for radiotherapy plan optimization. <i>Physics in Medicine and Biology</i> , 2009, 54, 7199-7209.	1.6	99
56	A novel approach to multi-criteria inverse planning for IMRT. <i>Physics in Medicine and Biology</i> , 2007, 52, 6339-6353.	1.6	97
57	Fast, multiple optimizations of quadratic dose objective functions in IMRT. <i>Physics in Medicine and Biology</i> , 2006, 51, 3569-3579.	1.6	39