

Marina A Epelman

List of Publications by Year in descending order

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35
papers

812
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840119

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705
citing authors

#	ARTICLE	IF	CITATIONS
1	PNaV: A tool for generating a high-dose-rate brachytherapy treatment plan by navigating the Pareto surface guided by the visualization of multidimensional trade-offs. <i>Brachytherapy</i> , 2020, 19, 518-531.	0.2	9
2	A new optimization algorithm for HDR brachytherapy that improves DVH-based planning: Truncated Conditional Value-at-Risk (TCVaR). <i>Biomedical Physics and Engineering Express</i> , 2020, 6, 065007.	0.6	3
3	Analysis of models for the Stochastic Outpatient Procedure Scheduling Problem. <i>European Journal of Operational Research</i> , 2019, 279, 721-731.	3.5	21
4	An Improved Optimization Algorithm for Brachytherapy HDR Treatment Planning. <i>Brachytherapy</i> , 2019, 18, S20-S21.	0.2	0
5	Creating resident shift schedules under multiple objectives by generating and evaluating the Pareto frontier. <i>Operations Research for Health Care</i> , 2019, 23, 100170.	0.8	5
6	A Simplex Method for Uncapacitated Pure-supply Infinite Network Flow Problems. <i>SIAM Journal on Optimization</i> , 2018, 28, 2022-2048.	1.2	7
7	An analytical approach to prototype vehicle test scheduling. <i>Omega</i> , 2017, 67, 168-176.	3.6	7
8	New Methods for Resolving Conflicting Requests with Examples from Medical Residency Scheduling. <i>Production and Operations Management</i> , 2017, 26, 1778-1793.	2.1	10
9	Simplex Algorithm for Countable-State Discounted Markov Decision Processes. <i>Operations Research</i> , 2017, 65, 1029-1042.	1.2	9
10	Optimizing global liver function in radiation therapy treatment planning. <i>Physics in Medicine and Biology</i> , 2016, 61, 6465-6484.	1.6	13
11	Scheduling Crash Tests at Ford Motor Company. <i>Interfaces</i> , 2016, 46, 409-423.	1.6	2
12	Parameter-Free Sampled Fictitious Play for Solving Deterministic Dynamic Programming Problems. <i>Journal of Optimization Theory and Applications</i> , 2016, 169, 631-655.	0.8	3
13	VMATc: VMAT with constant gantry speed and dose rate. <i>Physics in Medicine and Biology</i> , 2015, 60, 2955-2979.	1.6	9
14	THËABË€BRBË€08: Optimizing Global Liver Function in Liver SBRT Treatment Planning. <i>Medical Physics</i> , 2015, 42, 3705-3706.	1.6	0
15	Extreme point characterization of constrained nonstationary infinite-horizon Markov decision processes with finite state space. <i>Operations Research Letters</i> , 2014, 42, 238-245.	0.5	2
16	A dynamic programming approach to achieving an optimal end-state along a serial production line. <i>IIE Transactions</i> , 2013, 45, 1278-1292.	2.1	4
17	MO-A-137-06: A Stochastic Optimization Approach to Adaptive Lung Radiation Therapy Treatment Planning. <i>Medical Physics</i> , 2013, 40, 388-388.	1.6	1
18	A new column-generation-based algorithm for VMAT treatment plan optimization. <i>Physics in Medicine and Biology</i> , 2012, 57, 4569-4588.	1.6	45

#	ARTICLE	IF	CITATIONS
19	Stochastic programming for off-line adaptive radiotherapy. <i>Annals of Operations Research</i> , 2012, 196, 767-797.	2.6	12
20	A sampled fictitious play based learning algorithm for infinite horizon Markov Decision Processes. , 2011, , .		5
21	Sampled fictitious play for approximate dynamic programming. <i>Computers and Operations Research</i> , 2011, 38, 1705-1718.	2.4	6
22	Subsidized Prediction Markets for Risk Averse Traders. <i>Lecture Notes in Computer Science</i> , 2009, , 491-497.	1.0	3
23	Comments on: Intensity modulated radiation therapy treatment plan optimization. <i>Top</i> , 2008, 16, 244-245.	1.1	0
24	Optimizing Call Center Staffing Using Simulation and Analytic Center Cutting-Plane Methods. <i>Management Science</i> , 2008, 54, 295-309.	2.4	125
25	Ideal spatial radiotherapy dose distributions subject to positional uncertainties. <i>Physics in Medicine and Biology</i> , 2006, 51, 6329-6347.	1.6	14
26	CoSIGN: A Parallel Algorithm for Coordinated Traffic Signal Control. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2006, 7, 551-564.	4.7	50
27	A shortest path approach to the multiple-vehicle routing problem with split pick-ups. <i>Transportation Research Part B: Methodological</i> , 2006, 40, 265-284.	2.8	77
28	Assignment of swimmers to dual meet events. <i>Computers and Operations Research</i> , 2006, 33, 1951-1962.	2.4	5
29	Anisogamy, Expenditure of Reproductive Effort, and the Optimality of Having Two Sexes. <i>Operations Research</i> , 2005, 53, 560-567.	1.2	10
30	Costlets: A Generalized Approach to Cost Functions for Automated Optimization of IMRT Treatment Plans. <i>Optimization and Engineering</i> , 2005, 6, 421-448.	1.3	49
31	A Fictitious Play Approach to Large-Scale Optimization. <i>Operations Research</i> , 2005, 53, 477-489.	1.2	70
32	Call Center Staffing with Simulation and Cutting Plane Methods. <i>Annals of Operations Research</i> , 2004, 127, 333-358.	2.6	130
33	A New Condition Measure, Preconditioners, and Relations Between Different Measures of Conditioning for Conic Linear Systems. <i>SIAM Journal on Optimization</i> , 2002, 12, 627-655.	1.2	38
34	Condition number complexity of an elementary algorithm for computing a reliable solution of a conic linear system. <i>Mathematical Programming</i> , 2000, 88, 451-485.	1.6	55
35	Using Unbalanced Trees for Indexing Multidimensional Objects. <i>Knowledge and Information Systems</i> , 1999, 1, 309-336.	2.1	5