

Gino J Lim

List of Publications by Year in descending order

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96
papers

2,488
citations

147566

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223531

46
g-index

99
all docs

99
docs citations

99
times ranked

2210
citing authors

#	ARTICLE	IF	CITATIONS
1	A Novel Power Distribution Network Assessment Approach Using Drones Considering Wireless Charging. IEEE Systems Journal, 2022, 16, 3894-3904.	2.9	0
2	A novel port call optimization framework: A case study of chemical tanker operations. Applied Mathematical Modelling, 2022, 102, 101-114.	2.2	2
3	Smart border patrol using drones and wireless charging system under budget limitation. Computers and Industrial Engineering, 2022, 164, 107891.	3.4	6
4	A hybrid deep learning model for forecasting lymphocyte depletion during radiation therapy. Medical Physics, 2022, 49, 3507-3522.	1.6	6
5	Optimal Port Microgrid Scheduling Incorporating Onshore Power Supply and Berth Allocation Under Uncertainty. Applied Energy, 2022, 313, 118856.	5.1	27
6	Reflections on beam configuration optimization for intensity-modulated proton therapy. Physics in Medicine and Biology, 2022, , .	1.6	3
7	Scheduling Diagnostic Testing Kit Deliveries with the Mothership and Drone Routing Problem. Journal of Intelligent and Robotic Systems: Theory and Applications, 2022, 105, .	2.0	6
8	Distributed Reconfiguration of a Hybrid Shipboard Power System. IEEE Transactions on Power Systems, 2021, 36, 4-16.	4.6	13
9	An Optimization Approach to Minimize the Expected Loss of Demand Considering Drone Failures in Drone Delivery Scheduling. Journal of Intelligent and Robotic Systems: Theory and Applications, 2021, 102, 1.	2.0	8
10	Radiation-Induced Lymphopenia Risks of Photon Versus Proton Therapy for Esophageal Cancer Patients. International Journal of Particle Therapy, 2021, 8, 17-27.	0.9	11
11	A bilevel hybrid economic approach for optimal deployment of onshore power supply in maritime ports. Applied Energy, 2021, 292, 116892.	5.1	20
12	Dynamic network flow optimization for real-time evacuation reroute planning under multiple road disruptions. Reliability Engineering and System Safety, 2021, 214, 107644.	5.1	17
13	A reinforcement learning approach for finding optimal policy of adaptive radiation therapy considering uncertain tumor biological response. Artificial Intelligence in Medicine, 2021, 121, 102193.	3.8	10
14	Drone Delivery Scheduling Optimization Considering Payload-induced Battery Consumption Rates. Journal of Intelligent and Robotic Systems: Theory and Applications, 2020, 97, 471-487.	2.0	87
15	A framework for building a smart port and smart port index. International Journal of Sustainable Transportation, 2020, 14, 686-700.	2.1	123
16	A Pool Strategy of Microgrid in Power Distribution Electricity Market. IEEE Transactions on Power Systems, 2020, 35, 3-12.	4.6	46
17	A risk-based modeling approach for radiation therapy treatment planning under tumor shrinkage uncertainty. European Journal of Operational Research, 2020, 280, 266-278.	3.5	20
18	Stability-Constrained Microgrid Operation Scheduling Incorporating Frequency Control Reserve. IEEE Transactions on Smart Grid, 2020, 11, 1007-1017.	6.2	25

#	ARTICLE	IF	CITATIONS
19	Enabling smart ports through the integration of microgrids: A two-stage stochastic programming approach. <i>Applied Energy</i> , 2020, 258, 114022.	5.1	61
20	Optimizing infrastructure resilience under budgetary constraint. <i>Reliability Engineering and System Safety</i> , 2020, 198, 106801.	5.1	20
21	A Real-Time Rerouting Method for Drone Flights Under Uncertain Flight Time. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2020, 100, 1355-1368.	2.0	4
22	Stimulating sustainable energy at maritime ports by hybrid economic incentives: A bilevel optimization approach. <i>Applied Energy</i> , 2020, 272, 115188.	5.1	20
23	Optimal Management of Transactive Distribution Electricity Markets With Co-Optimized Bidirectional Energy and Ancillary Service Exchanges. <i>IEEE Transactions on Smart Grid</i> , 2020, 11, 4650-4661.	6.2	23
24	A biological effect-guided optimization approach using beam distal-edge avoidance for intensity-modulated proton therapy. <i>Medical Physics</i> , 2020, 47, 3816-3825.	1.6	11
25	A Decomposition Algorithm for the Two-Stage Chance-Constrained Operating Room Scheduling Problem. <i>IEEE Access</i> , 2020, 8, 80160-80172.	2.6	6
26	A quantitative approach for assessment and improvement of network resilience. <i>Reliability Engineering and System Safety</i> , 2020, 200, 106977.	5.1	54
27	Correction to "A Pool Strategy of Microgrid in Power Distribution Electricity Market" [Jan 20 3-12]. <i>IEEE Transactions on Power Systems</i> , 2020, 35, 2487-2487.	4.6	0
28	New global algorithms for quadratic programming with a few negative eigenvalues based on alternative direction method and convex relaxation. <i>Mathematical Programming Computation</i> , 2019, 11, 119-171.	3.2	16
29	Collision-Free Multi-UAV Flight Scheduling for Power Network Damage Assessment. , 2019, , .		8
30	A feasibility study of a risk-based stochastic optimization approach for radiation treatment planning under setup uncertainty. <i>Computers and Industrial Engineering</i> , 2019, 135, 67-78.	3.4	3
31	Reply to Comment on "Linear energy transfer incorporated intensity modulated proton therapy optimization". <i>Physics in Medicine and Biology</i> , 2019, 64, 058002.	1.6	1
32	Design and Assessment Methodology for System Resilience Metrics. <i>Risk Analysis</i> , 2019, 39, 1885-1898.	1.5	32
33	A variability reduction method for the operating room scheduling problem under uncertainty using CVaR. <i>Operations Research for Health Care</i> , 2019, 20, 25-32.	0.8	15
34	Robust optimization to reduce the impact of biological effect variation from physical uncertainties in intensity-modulated proton therapy. <i>Physics in Medicine and Biology</i> , 2019, 64, 025004.	1.6	21
35	A robust chance constraint programming approach for evacuation planning under uncertain demand distribution. <i>IIE Transactions</i> , 2019, 51, 589-604.	1.6	7
36	A Parallel Sectionalized Restoration Scheme for Resilient Smart Grid Systems. <i>IEEE Transactions on Smart Grid</i> , 2019, 10, 1660-1670.	6.2	51

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37	A Molecular Dynamics Approach for Optimizing Beam Intensities in IMPT Treatment Planning. Journal of Applied Mathematics and Physics, 2019, 07, 2130-2047.	0.2	1
38	Integrated Microgrid Expansion Planning in Electricity Market With Uncertainty. IEEE Transactions on Power Systems, 2018, 33, 3634-3643.	4.6	47
39	Drone flight scheduling under uncertainty on battery duration and air temperature. Computers and Industrial Engineering, 2018, 117, 291-302.	3.4	63
40	Models and computational algorithms for maritime risk analysis: a review. Annals of Operations Research, 2018, 271, 765-786.	2.6	58
41	Drone-Aided Border Surveillance with an Electrification Line Battery Charging System. Journal of Intelligent and Robotic Systems: Theory and Applications, 2018, 92, 657-670.	2.0	45
42	Multi-UAV Pre-Positioning and Routing for Power Network Damage Assessment. IEEE Transactions on Smart Grid, 2018, 9, 3643-3651.	6.2	66
43	A chance-constrained programming framework to handle uncertainties in radiation therapy treatment planning. European Journal of Operational Research, 2018, 266, 736-745.	3.5	16
44	Linear energy transfer incorporated intensity modulated proton therapy optimization. Physics in Medicine and Biology, 2018, 63, 015013.	1.6	59
45	A Hybrid Battery Charging Approach for Drone-Aided Border Surveillance Scheduling. Drones, 2018, 2, 38.	2.7	17
46	A Rescheduling Method of Drone Flights under Insufficient Remaining Battery Duration. , 2018, , .		8
47	A Simplified Parallel Power System Restoration for Large-Scale Transmission Grids. , 2018, , .		0
48	Policy Making of Optimal Power Planning and Emission-Reduction with Microgrid. , 2018, , .		1
49	Drone delivery schedule optimization considering the reliability of drones. , 2018, , .		20
50	Liquefied natural gas inventory routing problem under uncertain weather conditions. International Journal of Production Economics, 2018, 204, 18-29.	5.1	33
51	Drone Relay Stations for Supporting Wireless Communication in Military Operations. Advances in Intelligent Systems and Computing, 2018, , 123-130.	0.5	3
52	Drone-Aided Healthcare Services for Patients with Chronic Diseases in Rural Areas. Journal of Intelligent and Robotic Systems: Theory and Applications, 2017, 88, 163-180.	2.0	155
53	Comparison of linear and nonlinear programming approaches for "worst case dose" and "minimax" robust optimization of intensity-modulated proton therapy dose distributions. Journal of Applied Clinical Medical Physics, 2017, 18, 15-25.	0.8	19
54	Nurse scheduling with lunch break assignments in operating suites. Operations Research for Health Care, 2016, 10, 35-48.	0.8	21

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55	Market-based and resilient coordinated Microgrid planning under uncertainty. , 2016, , .		9
56	Clustering Approach for Defining Hurricane Evacuation Zones. Journal of the Urban Planning and Development Division, ASCE, 2016, 142, .	0.8	5
57	An optimal sonar placement approach for detecting underwater threats under budget limitations. Journal of Transportation Security, 2016, 9, 17-34.	0.9	3
58	Benders decomposition and an IP-based heuristic for selecting IMRT treatment beam angles. European Journal of Operational Research, 2016, 251, 715-726.	3.5	12
59	An optimization approach for real time evacuation reroute planning. Annals of Operations Research, 2016, 238, 375-388.	2.6	10
60	Robust Optimization for Intensity Modulated Proton Therapy Plans with Multi-Isocenter Large Fields. International Journal of Particle Therapy, 2016, 3, 305-311.	0.9	7
61	Liquefied Natural Gas Ship Route Planning: A Risk Analysis Approach. Procedia Manufacturing, 2015, 3, 1319-1326.	1.9	2
62	Safety and Security Management with Unmanned Aerial Vehicle (UAV) in Oil and Gas Industry. Procedia Manufacturing, 2015, 3, 1343-1349.	1.9	50
63	Literature Survey on Underwater Threat Detection. Transactions on Maritime Science, 2015, 4, 14-22.	0.3	3
64	Improved Beam Angle Arrangement in Intensity Modulated Proton Therapy Treatment Planning for Localized Prostate Cancer. Cancers, 2015, 7, 574-584.	1.7	20
65	A short-term operating room surgery scheduling problem integrating multiple nurses roster constraints. Artificial Intelligence in Medicine, 2015, 63, 91-106.	3.8	49
66	An ant colony optimization approach for solving an operating room surgery scheduling problem. Computers and Industrial Engineering, 2015, 85, 335-345.	3.4	76
67	Using Augmented É-constraint Method for Solving a Multi-objective Operating Theater Scheduling. Procedia Manufacturing, 2015, 3, 4448-4455.	1.9	4
68	Reliability analysis of evacuation routes under capacity uncertainty of road links. IIE Transactions, 2015, 47, 50-63.	2.1	37
69	Proton energy optimization and reduction for intensity-modulated proton therapy. Physics in Medicine and Biology, 2014, 59, 6341-6354.	1.6	34
70	Evaluation and mitigation of the interplay effects of intensity modulated proton therapy for lung cancer in a clinical setting. Practical Radiation Oncology, 2014, 4, e259-e268.	1.1	56
71	On the interplay effects with proton scanning beams in stage III lung cancer. Medical Physics, 2014, 41, 021721.	1.6	87
72	A hybrid framework for optimizing beam angles in radiation therapy planning. Annals of Operations Research, 2014, 217, 357-383.	2.6	16

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73	An Automatic Approach for Satisfying Dose-Volume Constraints in Linear Fluence Map Optimization for IMPT. <i>Journal of Cancer Therapy</i> , 2014, 05, 198-207.	0.1	13
74	Liquefied Natural Gas Ship Route Planning Model Considering Market Trend Change. <i>Transactions on Maritime Science</i> , 2014, 3, 119-130.	0.3	4
75	GPU-based parallel vertex substitution algorithm for the p-median problem. <i>Computers and Industrial Engineering</i> , 2013, 64, 381-388.	3.4	13
76	Incorporating deliverable monitor unit constraints into spot intensity optimization in intensity-modulated proton therapy treatment planning. <i>Physics in Medicine and Biology</i> , 2013, 58, 5113-5125.	1.6	36
77	Solution time reduction techniques of a stochastic dynamic programming approach for hazardous material route selection problem. <i>Computers and Industrial Engineering</i> , 2013, 65, 634-645.	3.4	15
78	$\hat{\Gamma}$ -Robust facility relocation problem. <i>European Journal of Operational Research</i> , 2013, 229, 67-74.	3.5	10
79	An Information Based Routing Model for Hazardous Material Route Selection Problem. <i>Industrial and Systems Engineering Review</i> , 2013, 1, 1-12.	0.2	1
80	Optimal egress time calculation and path generation for large evacuation networks. <i>Annals of Operations Research</i> , 2012, 201, 403-421.	2.6	11
81	A capacitated network flow optimization approach for short notice evacuation planning. <i>European Journal of Operational Research</i> , 2012, 223, 234-245.	3.5	96
82	Uncertainty incorporated beam angle optimization for IMPT treatment planning. <i>Medical Physics</i> , 2012, 39, 5248-5256.	1.6	50
83	A two-phase method for selecting IMRT treatment beam angles: Branch-and-Prune and local neighborhood search. <i>European Journal of Operational Research</i> , 2012, 217, 609-618.	3.5	51
84	A decomposition approach for facility location and relocation problem with uncertain number of future facilities. <i>European Journal of Operational Research</i> , 2012, 218, 327-338.	3.5	33
85	Daily scheduling of nurses in operating suites. <i>IIE Transactions on Healthcare Systems Engineering</i> , 2011, 1, 232-246.	0.8	25
86	Markov decision process approach for multiple objective hazardous material transportation route selection problem. <i>International Journal of Operational Research</i> , 2010, 7, 506.	0.1	8
87	A comparison of multivariate statistical methods for estimating expected consequences for low-probability and high-consequence incidents. <i>Human Factors and Ergonomics in Manufacturing</i> , 2010, 20, 233-250.	1.4	5
88	A nonlinear partial least squares algorithm using quadratic fuzzy inference system. <i>Journal of Chemometrics</i> , 2009, 23, 530-537.	0.7	31
89	Fast and robust techniques for the euclidean p-median problem with uniform weights. <i>Computers and Industrial Engineering</i> , 2009, 57, 896-905.	3.4	5
90	Optimization Models and Computational Approaches for Three-dimensional Conformal Radiation Treatment Planning. <i>Springer Optimization and Its Applications</i> , 2009, , 53-81.	0.6	1

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91	Iterative solution methods for beam angle and fluence map optimization in intensity modulated radiation therapy planning. OR Spectrum, 2008, 30, 289-309.	2.1	57
92	Comments on: Intensity modulated radiation therapy treatment plan optimization. Top, 2008, 16, 248-250.	1.1	0
93	Introduction to Radiation Therapy Planning Optimization. Engineering and Management Innovation, 2008, , .	0.1	3
94	An Optimization Framework for Conformal Radiation Treatment Planning. INFORMS Journal on Computing, 2007, 19, 366-380.	1.0	36
95	Radiosurgery Treatment Planning via Nonlinear Programming. Annals of Operations Research, 2003, 119, 247-260.	2.6	41
96	An Optimization Approach for Radiosurgery Treatment Planning. SIAM Journal on Optimization, 2002, 13, 921-937.	1.2	39