Gino J Lim

List of Publications by Year
in descending order

96 papers	2,488 citations	147566 31 h-index	223531 46 g-index
99 all docs	99 docs citations	99 times ranked	2210 citing authors

#	Article	IF	Citations
1	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
2	A framework for building a smart port and smart port index. International Journal of Sustainable Transportation, 2020, 14, 686-700.	2.1	123
3	A capacitated network flow optimization approach for short notice evacuation planning. European Journal of Operational Research, 2012, 223, 234-245.	3.5	96
4	On the interplay effects with proton scanning beams in stage III lung cancer. Medical Physics, 2014, 41, 021721.	1.6	87
5	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
6	An ant colony optimization approach for solving an operating room surgery scheduling problem. Computers and Industrial Engineering, 2015, 85, 335-345.	3.4	76
7	Multi-UAV Pre-Positioning and Routing for Power Network Damage Assessment. IEEE Transactions on Smart Grid, 2018, 9, 3643-3651.	6.2	66
8	Drone flight scheduling under uncertainty on battery duration and air temperature. Computers and Industrial Engineering, 2018, 117, 291-302.	3.4	63
9	Enabling smart ports through the integration of microgrids: A two-stage stochastic programming approach. Applied Energy, 2020, 258, 114022.	5.1	61
10	Linear energy transfer incorporated intensity modulated proton therapy optimization. Physics in Medicine and Biology, 2018, 63, 015013.	1.6	59
11	Models and computational algorithms for maritime risk analysis: a review. Annals of Operations Research, 2018, 271, 765-786.	2.6	58
12	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
13	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
14	A quantitative approach for assessment and improvement of network resilience. Reliability Engineering and System Safety, 2020, 200, 106977.	5.1	54
15	A two-phase method for selecting IMRT treatment beam angles: Branch-and-Prune and local neighborhood search. European Journal of Operational Research, 2012, 217, 609-618.	3.5	51
16	A Parallel Sectionalized Restoration Scheme for Resilient Smart Grid Systems. IEEE Transactions on Smart Grid, 2019, 10, 1660-1670.	6.2	51
17	Uncertainty incorporated beam angle optimization for IMPT treatment planning. Medical Physics, 2012, 39, 5248-5256.	1.6	50
18	Safety and Security Management with Unmanned Aerial Vehicle (UAV) in Oil and Gas Industry. Procedia Manufacturing, 2015, 3, 1343-1349.	1.9	50

#	ARTICLE	IF	CITATIONS
19	A short-term operating room surgery scheduling problem integrating multiple nurses roster constraints. Artificial Intelligence in Medicine, 2015, 63, 91-106.	3.8	49
20	Integrated Microgrid Expansion Planning in Electricity Market With Uncertainty. IEEE Transactions on Power Systems, 2018, 33, 3634-3643.	4.6	47
21	A Pool Strategy of Microgrid in Power Distribution Electricity Market. IEEE Transactions on Power Systems, 2020, 35, 3-12.	4.6	46
22	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
23	Radiosurgery Treatment Planning via Nonlinear Programming. Annals of Operations Research, 2003, 119, 247-260.	2.6	41
24	An Optimization Approach for Radiosurgery Treatment Planning. SIAM Journal on Optimization, 2002, 13, 921-937.	1.2	39
25	Reliability analysis of evacuation routes under capacity uncertainty of road links. IIE Transactions, 2015, 47, 50-63.	2.1	37
26	An Optimization Framework for Conformal Radiation Treatment Planning. INFORMS Journal on Computing, 2007, 19, 366-380.	1.0	36
27	Incorporating deliverable monitor unit constraints into spot intensity optimization in intensity-modulated proton therapy treatment planning. Physics in Medicine and Biology, 2013, 58, 5113-5125.	1.6	36
28	Proton energy optimization and reduction for intensity-modulated proton therapy. Physics in Medicine and Biology, 2014, 59, 6341-6354.	1.6	34
29	A decomposition approach for facility location and relocation problem with uncertain number of future facilities. European Journal of Operational Research, 2012, 218, 327-338.	3.5	33
30	Liquefied natural gas inventory routing problem under uncertain weather conditions. International Journal of Production Economics, 2018, 204, 18-29.	5.1	33
31	Design and Assessment Methodology for System Resilience Metrics. Risk Analysis, 2019, 39, 1885-1898.	1.5	32
32	A nonlinear partial least squares algorithm using quadratic fuzzy inference system. Journal of Chemometrics, 2009, 23, 530-537.	0.7	31
33	Optimal Port Microgrid Scheduling Incorporating Onshore Power Supply and Berth Allocation Under Uncertainty. Applied Energy, 2022, 313, 118856.	5.1	27
34	Daily scheduling of nurses in operating suites. IIE Transactions on Healthcare Systems Engineering, 2011, 1, 232-246.	0.8	25
35	Stability-Constrained Microgrid Operation Scheduling Incorporating Frequency Control Reserve. IEEE Transactions on Smart Grid, 2020, 11, 1007-1017.	6.2	25
36	Optimal Management of Transactive Distribution Electricity Markets With Co-Optimized Bidirectional Energy and Ancillary Service Exchanges. IEEE Transactions on Smart Grid, 2020, 11, 4650-4661.	6.2	23

#	Article	IF	Citations
37	Nurse scheduling with lunch break assignments in operating suites. Operations Research for Health Care, 2016, 10, 35-48.	0.8	21
38	Robust optimization to reduce the impact of biological effect variation from physical uncertainties in intensity-modulated proton therapy. Physics in Medicine and Biology, 2019, 64, 025004.	1.6	21
39	Improved Beam Angle Arrangement in Intensity Modulated Proton Therapy Treatment Planning for Localized Prostate Cancer. Cancers, 2015, 7, 574-584.	1.7	20
40	Drone delivery schedule optimization considering the reliability of drones. , 2018, , .		20
41	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
42	Optimizing infrastructure resilience under budgetary constraint. Reliability Engineering and System Safety, 2020, 198, 106801.	5.1	20
43	Stimulating sustainable energy at maritime ports by hybrid economic incentives: A bilevel optimization approach. Applied Energy, 2020, 272, 115188.	5.1	20
44	A bilevel hybrid economic approach for optimal deployment of onshore power supply in maritime ports. Applied Energy, 2021, 292, 116892.	5.1	20
45	Comparison of linear and nonlinear programming approaches for â€œworst case doseâ€•and â€œminmaxâ€• robust optimization of intensityâ€modulated proton therapy dose distributions. Journal of Applied Clinical Medical Physics, 2017, 18, 15-25.	0.8	19
46	A Hybrid Battery Charging Approach for Drone-Aided Border Surveillance Scheduling. Drones, 2018, 2, 38.	2.7	17
47	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
48	A hybrid framework for optimizing beam angles in radiation therapy planning. Annals of Operations Research, 2014, 217, 357-383.	2.6	16
49	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
50	New global algorithms for quadratic programming with a few negative eigenvalues based on alternative direction method and convex relaxation. Mathematical Programming Computation, 2019, 11, 119-171.	3.2	16
51	Solution time reduction techniques of a stochastic dynamic programming approach for hazardous material route selection problem. Computers and Industrial Engineering, 2013, 65, 634-645.	3.4	15
52	A variability reduction method for the operating room scheduling problem under uncertainty using CVaR. Operations Research for Health Care, 2019, 20, 25-32.	0.8	15
53	GPU-based parallel vertex substitution algorithm for the p-median problem. Computers and Industrial Engineering, 2013, 64, 381-388.	3.4	13
54	Distributed Reconfiguration of a Hybrid Shipboard Power System. IEEE Transactions on Power Systems, 2021, 36, 4-16.	4.6	13

#	Article	IF	Citations
55	An Automatic Approach for Satisfying Dose-Volume Constraints in Linear Fluence Map Optimization for IMPT. Journal of Cancer Therapy, 2014, 05, 198-207.	0.1	13
56	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
57	Optimal egress time calculation and path generation for large evacuation networks. Annals of Operations Research, 2012, 201, 403-421.	2.6	11
58	A biological effectâ€guided optimization approach using beam distalâ€edge avoidance for intensityâ€modulated proton therapy. Medical Physics, 2020, 47, 3816-3825.	1.6	11
59	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
60	Î³-Robust facility relocation problem. European Journal of Operational Research, 2013, 229, 67-74.	3.5	10
61	An optimization approach for real time evacuation reroute planning. Annals of Operations Research, 2016, 238, 375-388.	2.6	10
62	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
63	Market-based and resilient coordinated Microgrid planning under uncertainty. , 2016, , .		9
64	Markov decision process approach for multiple objective hazardous material transportation route selection problem. International Journal of Operational Research, 2010, 7, 506.	0.1	8
65	A Rescheduling Method of Drone Flights under Insufficient Remaining Battery Duration. , 2018, , .		8
66	Collision-Free Multi-UAV Flight Scheduling for Power Network Damage Assessment. , 2019, , .		8
67	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
68	A robust chance constraint programming approach for evacuation planning under uncertain demand distribution. IISE Transactions, 2019, 51, 589-604.	1.6	7
69	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
70	A Decomposition Algorithm for the Two-Stage Chance-Constrained Operating Room Scheduling Problem. IEEE Access, 2020, 8, 80160-80172.	2.6	6
71	Smart border patrol using drones and wireless charging system under budget limitation. Computers and Industrial Engineering, 2022, 164, 107891.	3.4	6
72	A hybrid deep learning model for forecasting lymphocyte depletion during radiation therapy. Medical Physics, 2022, 49, 3507-3522.	1.6	6

#	Article	IF	Citations
73	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
74	Fast and robust techniques for the euclidean p-median problem with uniform weights. Computers and Industrial Engineering, 2009, 57, 896-905.	3.4	5
75	A comparison of multivariate statistical methods for estimating expected consequences for lowâ€probability and highâ€consequence incidents. Human Factors and Ergonomics in Manufacturing, 2010, 20, 233-250.	1.4	5
76	Clustering Approach for Defining Hurricane Evacuation Zones. Journal of the Urban Planning and Development Division, ASCE, 2016, 142, .	0.8	5
77	Using Augmented É›-constraint Method for Solving a Multi-objective Operating Theater Scheduling. Procedia Manufacturing, 2015, 3, 4448-4455.	1.9	4
78	A Real-Time Rerouting Method for Drone Flights Under Uncertain Flight Time. Journal of Intelligent and Robotic Systems: Theory and Applications, 2020, 100, 1355-1368.	2.0	4
79	Liquefied Natural Gas Ship Route Planning Model Considering Market Trend Change. Transactions on Maritime Science, 2014, 3, 119-130.	0.3	4
80	Literature Survey on Underwater Threat Detection. Transactions on Maritime Science, 2015, 4, 14-22.	0.3	3
81	An optimal sonar placement approach for detecting underwater threats under budget limitations. Journal of Transportation Security, 2016, 9, 17-34.	0.9	3
82	A feasibility study of a risk-based stochastic optimization approach for radiation treatment planning under setup uncertainty. Computers and Industrial Engineering, 2019, 135, 67-78.	3.4	3
83	Drone Relay Stations for Supporting Wireless Communication in Military Operations. Advances in Intelligent Systems and Computing, 2018, , 123-130.	0.5	3
84	Introduction to Radiation Therapy Planning Optimization. Engineering and Management Innovation, 2008, , .	0.1	3
85	Reflections on beam configuration optimization for intensity-modulated proton therapy. Physics in Medicine and Biology, 2022, , .	1.6	3
86	Liquefied Natural Gas Ship Route Planning: A Risk Analysis Approach. Procedia Manufacturing, 2015, 3, 1319-1326.	1.9	2
87	A novel port call optimization framework: A case study of chemical tanker operations. Applied Mathematical Modelling, 2022, 102, 101-114.	2.2	2
88	Policy Making of Optimal Power Planning and Emission-Reduction with Microgrid. , 2018, , .		1
89	Reply to Comment on â€˜Linear energy transfer incorporated intensity modulated proton therapy optimizationâ€™. Physics in Medicine and Biology, 2019, 64, 058002.	1.6	1
90	Optimization Models and Computational Approaches for Three-dimensional Conformal Radiation Treatment Planning. Springer Optimization and Its Applications, 2009, , 53-81.	0.6	1

#	Article	IF	Citations
91	An Information Based Routing Model for Hazardous Material Route Selection Problem. Industrial and Systems Engineering Review, 2013, 1, 1-12.	0.2	1
92	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
93	Comments on: Intensity modulated radiation therapy treatment plan optimization. Top, 2008, 16, 248-250.	1.1	0
94	A Simplified Parallel Power System Restoration for Large-Scale Transmission Grids. , 2018, , .		0
95	A Novel Power Distribution Network Assessment Approach Using Drones Considering Wireless Charging. IEEE Systems Journal, 2022, 16, 3894-3904.	2.9	0
96	Correction to â€œA Pool Strategy of Microgrid in Power Distribution Electricity Marketâ€•[Jan 20 3-12]. IEEE Transactions on Power Systems, 2020, 35, 2487-2487.	4.6	0