Ali H Diabat

List of Publications by Year
in descending order

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139 papers	10,903 citations	31974 53 h-index	33889 99 g-index
140 all docs	140 docs citations	140 times ranked	6219 citing authors

#	Article	IF	Citations
1	The Arithmetic Optimization Algorithm. Computer Methods in Applied Mechanics and Engineering, 2021, 376, 113609.	6.6	1,513
2	An analysis of the drivers affecting the implementation of green supply chain management. Resources, Conservation and Recycling, 2011, 55, 659-667.	10.8	750
3	Integrated fuzzy multi criteria decision making method and multi-objective programming approach for supplier selection and order allocation in a green supply chain. Journal of Cleaner Production, 2013, 47, 355-367.	9.3	617
4	A fuzzy multi criteria approach for evaluating green supplier's performance in green supply chain with linguistic preferences. Resources, Conservation and Recycling, 2013, 74, 170-179.	10.8	369
5	Analysis of enablers for implementation of sustainable supply chain management â€“ A textile case. Journal of Cleaner Production, 2014, 83, 391-403.	9.3	268
6	Analyzing the drivers of green manufacturing with fuzzy approach. Journal of Cleaner Production, 2015, 96, 182-193.	9.3	232
7	A genetic algorithm approach for location-inventory-routing problem with perishable products. Journal of Manufacturing Systems, 2017, 42, 93-103.	13.9	227
8	Advances in Sine Cosine Algorithm: A comprehensive survey. Artificial Intelligence Review, 2021, 54, 2567-2608.	15.7	224
9	Supply chain risk management and its mitigation in a food industry. International Journal of Production Research, 2012, 50, 3039-3050.	7.5	212
10	A novel hybrid antlion optimization algorithm forÂmulti-objective task scheduling problems in cloud computing environments. Cluster Computing, 2021, 24, 205-223.	5.0	208
11	A carbon footprint based reverse logistics network design model. Resources, Conservation and Recycling, 2012, 67, 75-79.	10.8	205
12	Overview of coordination contracts within forward and reverse supply chains. Journal of Cleaner Production, 2013, 47, 319-334.	9.3	192
13	Using AHP to evaluate barriers in adopting sustainable consumption and production initiatives in a supply chain. International Journal of Production Economics, 2016, 181, 342-349.	8.9	185
14	Green supply chains with carbon trading and environmental sourcing: Formulation and life cycle assessment. Applied Mathematical Modelling, 2012, 36, 4271-4285.	4.2	177
15	Analysis of interaction between the barriers for the implementation of sustainable supply chain management. International Journal of Advanced Manufacturing Technology, 2013, 68, 895-905.	3.0	161
16	A comprehensive survey of theÂGrasshopper optimization algorithm: results, variants, and applications. Neural Computing and Applications, 2020, 32, 15533-15556.	5.6	156
17	An exploration of green supply chain practices and performances in an automotive industry. International Journal of Advanced Manufacturing Technology, 2013, 68, 949-961.	3.0	154
18	A decision making trial and evaluation laboratory approach to analyze the barriers to Green Supply Chain Management adoption in a food packaging company. Journal of Cleaner Production, 2016, 117, 19-28.	9.3	128

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19	Sustainable supply chain design: a closed-loop formulation and sensitivity analysis. Production Planning and Control, 2012, 23, 120-133.	8.8	122
20	A multi-criteria optimization approach to manage environmental issues in closed loop supply chain network design. Journal of Cleaner Production, 2015, 100, 297-314.	9.3	122
21	A reverse logistics network design. Journal of Manufacturing Systems, 2015, 37, 589-598.	13.9	117
22	Strategic Closed-Loop Facility Location Problem With Carbon Market Trading. IEEE Transactions on Engineering Management, 2013, 60, 398-408.	3.5	112
23	A perishable product supply chain network design problem with reliability and disruption considerations. International Journal of Production Economics, 2019, 212, 125-138.	8.9	111
24	A Novel Evolutionary Arithmetic Optimization Algorithm for Multilevel Thresholding Segmentation of COVID-19 CT Images. Processes, 2021, 9, 1155.	2.8	110
25	Application of analytical hierarchy process to evaluate pressures toÂimplement green supply chain management. Journal of Cleaner Production, 2015, 107, 229-236.	9.3	105
26	A Comprehensive Survey of the Harmony Search Algorithm in Clustering Applications. Applied Sciences (Switzerland), 2020, 10, 3827.	2.5	98
27	A column generation-based heuristic algorithm for an inventory routing problem with perishable goods. Optimization Letters, 2013, 7, 1481-1502.	1.6	96
28	A two-stage multi-echelon stochastic blood supply chain problem. Computers and Operations Research, 2019, 101, 130-143.	4.0	96
29	An Integrated Quay Crane Assignment and Scheduling Problem. Computers and Industrial Engineering, 2014, 73, 115-123.	6.3	95
30	An optimization model for product returns using genetic algorithms and artificial immune system. Resources, Conservation and Recycling, 2013, 74, 156-169.	10.8	94
31	Robust design of blood supply chains under risk of disruptions using Lagrangian relaxation. Transportation Research, Part E: Logistics and Transportation Review, 2020, 134, 101764.	7.4	91
32	Hybrid algorithm for a vendor managed inventory system in a two-echelon supply chain. European Journal of Operational Research, 2014, 238, 114-121.	5.7	90
33	An integrated supply chain problem with environmental considerations. International Journal of Production Economics, 2015, 164, 330-338.	8.9	87
34	An improved Lagrangian relaxation-based heuristic for a joint location-inventory problem. Computers and Operations Research, 2015, 61, 170-178.	4.0	85
35	Designing a closed-loop supply chain network for citrus fruits crates considering environmental and economic issues. Journal of Manufacturing Systems, 2020, 55, 199-220.	13.9	77
36	A carbon-capped supply chain network problem. , 2009, , .		73

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37	A Lagrangian relaxation approach to simultaneous strategic and tactical planning in supply chain design. Annals of Operations Research, 2013, 203, 55-80.	4.1	73
38	A multi-vessel quay crane assignment and scheduling problem: Formulation and heuristic solution approach. Expert Systems With Applications, 2014, 41, 6959-6965.	7.6	73
39	Analyzing the SSCM practices in the mining and mineral industry by ISM approach. Resources Policy, 2015, 46, 76-85.	9.6	73
40	A closed-loop location-inventory problem with spare parts consideration. Computers and Operations Research, 2015, 54, 245-256.	4.0	72
41	A Genetic Algorithm for Reverse Logistics network design: A case study from the GCC. Journal of Cleaner Production, 2017, 151, 652-669.	9.3	72
42	A lot sizing model with partial downstream delayed payment, partial upstream advance payment, and partial backordering for deteriorating items. Journal of Manufacturing Systems, 2017, 45, 322-342.	13.9	70
43	Incorporating location and inventory decisions into a supply chain design problem with uncertain demands and lead times. Journal of Manufacturing Systems, 2017, 43, 139-149.	13.9	67
44	Benders decomposition for the inventory vehicle routing problem with perishable products and environmental costs. Computers and Operations Research, 2020, 113, 104751.	4.0	67
45	A hybrid genetic algorithm based heuristic for an integrated supply chain problem. Journal of Manufacturing Systems, 2016, 38, 172-180.	13.9	66
46	Benchmarking the interactions among barriers in third-party logistics implementation. Benchmarking, 2013, 20, 805-824.	4.6	65
47	Leagile supplier selection in Chinese textile industries: a DEMATEL approach. Annals of Operations Research, 2020, 287, 303-322.	4.1	65
48	A hybrid tabu search based heuristic for the periodic distribution inventory problem with perishable goods. Annals of Operations Research, 2016, 242, 373-398.	4.1	64
49	Mathematical and optimization modelling in desalination: State-of-the-art and future direction. Desalination, 2019, 469, 114092.	8.2	64
50	A stochastic reverse logistics production routing model with emissions control policy selection. International Journal of Production Economics, 2019, 213, 201-216.	8.9	62
51	Investigating the option of installing small scale PVs on facility rooftops in a green supply chain. International Journal of Production Economics, 2013, 146, 465-477.	8.9	61
52	A simulation-based Genetic Algorithm approach for the quay crane scheduling under uncertainty. Simulation Modelling Practice and Theory, 2016, 66, 122-138.	3.8	61
53	A simulated annealing technique for multi-objective simulation optimization. Applied Mathematics and Computation, 2009, 215, 3029-3035.	2.2	59
54	A locationâ€“inventory supply chain problem: Reformulation and piecewise linearization. Computers and Industrial Engineering, 2015, 90, 381-389.	6.3	55

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55	Analyzing the drivers of end-of-life tire management using interpretive structural modeling (ISM). International Journal of Advanced Manufacturing Technology, 2014, 72, 1603-1614.	3.0	54
56	A Lagrangian relaxation approach for solving the integrated quay crane assignment and scheduling problem. Applied Mathematical Modelling, 2015, 39, 1194-1201.	4.2	54
57	A stochastic model for operating room planning under capacity constraints. International Journal of Production Research, 2015, 53, 7252-7270.	7.5	53
58	Integrating disassembly line balancing in the planning of a reverse logistics network from the perspective of a third party provider. Annals of Operations Research, 2017, 253, 353-376.	4.1	51
59	A closed-loop supply chain management problem: Reformulation and piecewise linearization. Journal of Manufacturing Systems, 2016, 40, 1-8.	13.9	50
60	Chaotic binary Group Search Optimizer for feature selection. Expert Systems With Applications, 2022, 192, 116368.	7.6	49
61	Designing a closed-loop supply chain network considering multi-task sales agencies and multi-mode transportation. Soft Computing, 2021, 25, 6203-6235.	3.6	48
62	A Chance-constrained operating room planning with elective and emergency cases under downstream capacity constraints. Computers and Industrial Engineering, 2017, 114, 329-344.	6.3	47
63	Intelligent workflow scheduling for Big Data applications in IoT cloud computing environments. Cluster Computing, 2021, 24, 2957-2976.	5.0	47
64	Solving a reverse supply chain design problem by improved Benders decomposition schemes. Computers and Industrial Engineering, 2013, 66, 889-898.	6.3	46
65	The Quay Crane Scheduling Problem. Journal of Manufacturing Systems, 2015, 36, 87-94.	13.9	46
66	Integrated smart grid systems security threat model. Information Systems, 2015, 53, 147-160.	3.6	43
67	Contract analysis: A performance measures and profit evaluation within two-echelon supply chains. Computers and Industrial Engineering, 2012, 63, 58-74.	6.3	42
68	The quay crane scheduling problem with nonzero crane repositioning time and vessel stability constraints. Computers and Industrial Engineering, 2016, 94, 230-244.	6.3	42
69	A Lagrangian relaxation-based heuristic for the multi-ship quay crane scheduling problem with ship stability constraints. Annals of Operations Research, 2017, 248, 1-24.	4.1	41
70	A simulation optimization approach for solving the dual-cycling problem in container terminals. Maritime Policy and Management, 2015, 42, 806-826.	3.8	40
71	A stochastic reverse logistics production routing model with environmental considerations. Annals of Operations Research, 2018, 271, 1023-1044.	4.1	39
72	An evolutionary programming approach for solving the capacitated facility location problem with risk pooling. International Journal of Applied Decision Sciences, 2009, 2, 389.	0.3	38

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73	A joint quay crane assignment and scheduling problem: formulation, solution algorithm and computational results. Optimization Letters, 2015, 9, 799-817.	1.6	38
74	An integrated queuing-stochastic optimization hybrid Genetic Algorithm for a location-inventory supply chain network. International Journal of Production Economics, 2021, 237, 108139.	8.9	36
75	Multi-product and multi-period closed loop supply chain network design under take-back legislation. International Journal of Production Economics, 2021, 231, 107879.	8.9	35
76	An integrated supply chain problem: a nested lagrangian relaxation approach. Annals of Operations Research, 2015, 229, 303-323.	4.1	34
77	A carbon sensitive supply chain network problem with green procurement. , 2010, , .		33
78	The integrated berth allocation, quay crane assignment and scheduling problem: mathematical formulations and a case study. Annals of Operations Research, 2020, 291, 435-461.	4.1	33
79	A coordinated location-inventory problem with supply disruptions: A two-phase queuing theoryâ€“optimization model approach. Computers and Industrial Engineering, 2020, 142, 106326.	6.3	32
80	A capacitated facility location and inventory management problem with single sourcing. Optimization Letters, 2016, 10, 1577-1592.	1.6	31
81	An integrated flight scheduling and fleet assignment problem under uncertainty. Computers and Operations Research, 2018, 100, 333-342.	4.0	30
82	The integrated aircraft routing problem with optional flights and delay considerations. Transportation Research, Part E: Logistics and Transportation Review, 2018, 118, 355-375.	7.4	30
83	Selection scheme sensitivity for a hybrid Salp Swarm Algorithm: analysis and applications. Engineering With Computers, 2022, 38, 1149-1175.	6.1	29
84	Improved slime mould algorithm by opposition-based learning and Levy flight distribution for global optimization and advances in real-world engineering problems. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 1163-1202.	4.9	29
85	A Lagrangian heuristic and GRASP for the hub-and-spoke network system with economies-of-scale and congestion. Transportation Research Part C: Emerging Technologies, 2019, 102, 249-273.	7.6	28
86	A stochastic micro-periodic age-based inventory replenishment policy for perishable goods. Transportation Research, Part E: Logistics and Transportation Review, 2018, 118, 445-465.	7.4	27
87	Risks assessment in thermal power plants using ISM methodology. Annals of Operations Research, 2019, 279, 89-113.	4.1	27
88	A benchmark based AHP model for credit evaluation. International Journal of Applied Decision Sciences, 2009, 2, 151.	0.3	25
89	Optimal design of a hybrid solar-wind power to drive a small-size reverse osmosis desalination plant. Desalination and Water Treatment, 2013, 51, 3417-3427.	1.0	25
90	System Security Requirements Analysis:A Smart Grid Case Study. Systems Engineering, 2014, 17, 77-88.	2.7	25

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91	Exact methods for the quay crane scheduling problem when tasks are modeled at the single container level. Computers and Operations Research, 2018, 99, 218-233.	4.0	24
92	The quay crane scheduling problem with non-crossing and safety clearance constraints: An exact solution approach. Computers and Operations Research, 2019, 107, 189-199.	4.0	24
93	Benders decomposition for multiple-allocation hub-and-spoke network design with economies of scale and node congestion. Transportation Research Part B: Methodological, 2020, 133, 62-84.	5.9	24
94	An integrated berth allocation and yard assignment problem for bulk ports: Formulation and case study. RAIRO - Operations Research, 2017, 51, 267-284.	1.8	21
95	Large-scale reverse supply chain network design: An accelerated Benders decomposition algorithm. Computers and Industrial Engineering, 2018, 124, 545-559.	6.3	20
96	Sustainability dimensions and PM2.5 in supply chain logistics. Annals of Operations Research, 2019, 275, 339-366.	4.1	20
97	COVID-19 pandemic disruption: a matter of building companiesâ€™ internal and external resilience. International Journal of Production Research, 2023, 61, 2716-2737.	7.5	20
98	Modeling logistics service providers in a non-cooperative supply chain. Applied Mathematical Modelling, 2016, 40, 6340-6358.	4.2	19
99	The supply chain of blood products in the wake of the COVID-19 pandemic: Appointment scheduling and other restrictions. Transportation Research, Part E: Logistics and Transportation Review, 2022, 159, 102576.	7.4	19
100	The Dynamic Berth Allocation Problem: A linearized formulation. RAIRO - Operations Research, 2015, 49, 473-494.	1.8	18
101	Long-Term Electricity Demand Prediction via Socioeconomic Factorsâ€”A Machine Learning Approach with Florida as a Case Study. Energies, 2020, 13, 3996.	3.1	18
102	Vessel scheduling with pilotage and tugging considerations. Transportation Research, Part E: Logistics and Transportation Review, 2021, 148, 102231.	7.4	18
103	A Branch-and-Price Algorithm to Solve a Quay Crane Scheduling Problem. Procedia Computer Science, 2015, 61, 527-532.	2.0	16
104	Multiple-vendor, multiple-retailer based vendor-managed inventory. Annals of Operations Research, 2016, 238, 277-297.	4.1	16
105	The integrated quay crane assignment and scheduling problems with carbon emissions considerations. Computers and Industrial Engineering, 2022, 165, 107734.	6.3	16
106	Improved multi-core arithmetic optimization algorithm-based ensemble mutation for multidisciplinary applications. Journal of Intelligent Manufacturing, 2023, 34, 1833-1874.	7.3	16
107	AN EVALUATION OF VENDOR MANAGED INVENTORY PRACTICES FROM SMALL AND MEDIUM INDIAN ENTERPRISES. Journal of Business Economics and Management, 2013, 14, S76-S95.	2.4	15
108	Supply chain network design with direct and indirect production costs: Hybrid gradient and local search based heuristics. International Journal of Production Economics, 2018, 203, 203-215.	8.9	15

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109	Utility subsidy reform in Abu Dhabi: A review and a Computable General Equilibrium analysis. Renewable and Sustainable Energy Reviews, 2016, 55, 1352-1362.	16.4	14
110	Exam timetabling with allowable conflicts within a time window. Computers and Industrial Engineering, 2019, 127, 263-273.	6.3	14
111	Next-generation quay crane scheduling. Transportation Research Part C: Emerging Technologies, 2020, 114, 694-715.	7.6	14
112	Optimizing convexity defect in a tile industry using fuzzy goal programming. Measurement: Journal of the International Measurement Confederation, 2013, 46, 2807-2815.	5.0	13
113	Solving dynamic systems with multi-responses by integrating desirability function and data envelopment analysis. Journal of Intelligent Manufacturing, 2017, 28, 387-403.	7.3	13
114	Optimizing tabletsâ€™ quality with multiple responses using fuzzy goal programming. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2014, 228, 115-126.	2.5	11
115	On the Berth Allocation Problem. RAIRO - Operations Research, 2016, 50, 491-501.	1.8	11
116	On the optimal computing budget allocation problem for large scale simulation optimization. Simulation Modelling Practice and Theory, 2017, 71, 149-159.	3.8	11
117	A cost based approach for a Crane Assignment and Scheduling Problem. , 2015, , .		10
118	Reliable closed-loop supply chain design problem under facility-type-dependent probabilistic disruptions. Transportation Research Part B: Methodological, 2021, 146, 180-209.	5.9	10
119	The Fixed-Partition Policy Inventory Routing Problem. Transportation Science, 2021, 55, 353-370.	4.4	8
120	Branch-and-price for a combined order selection and distribution problem in online community group-buying of perishable products. Transportation Research Part B: Methodological, 2022, 158, 341-373.	5.9	8
121	Codeshare agreements in the integrated aircraft routing problem. Transportation Research Part B: Methodological, 2018, 117, 272-295.	5.9	7
122	Improved gradual change-based Harris Hawks optimization for real-world engineering design problems. Engineering With Computers, 2023, 39, 1843-1883.	6.1	7
123	Modeling and heuristics for production time crashing in supply chain network design. Annals of Operations Research, 2020, 288, 331-361.	4.1	6
124	Competitive bi-agent flowshop scheduling to minimise the weighted combination of makespans. International Journal of Production Research, 2022, 60, 6750-6771.	7.5	6
125	Boosted Harris Hawks gravitational force algorithm for global optimization and industrial engineering problems. Journal of Intelligent Manufacturing, 2023, 34, 2693-2728.	7.3	6
126	Quay Crane Scheduling with Vessel Stability. Transportation Research Procedia, 2018, 30, 60-69.	1.5	5

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127	Modelling and optimization of outpatient appointment scheduling. RAIRO - Operations Research, 2015, 49, 435-450.	1.8	4
128	An Integrated Quay Crane Assignment and Scheduling Problem Using Branch-and-Price. , 2016, , .		4
129	Business interactions modeling for systems of systems engineering: Smart grid example. , 2012, , .		3
130	Aggregate directional distance formulation of DEA with integer variables. Annals of Operations Research, 2015, 235, 741-756.	4.1	2
131	Goal-Oriented Requirements Engineering for Research-Intensive Complex Systems: A Case Study. Systems Engineering, 2016, 19, 322-333.	2.7	2
132	An Optimal Integrated Approach Considering Distribution System Reconfiguration and Protection Coordination. , 2020, , .		2
133	A multi-product capacitated inventory-location model with risk pooling. , 2010, , .		1
134	A Simulated Annealing with Ranking and Selection for Stochastic Optimization. Advanced Materials Research, 0, 488-489, 1335-1340.	0.3	1
135	Sequence-Based Simulation Optimization: An Application to Container Terminals. , 2018, , .		1
136	Three parallel task assignment problems with shared resources. IISE Transactions, 2020, 52, 478-485.	2.4	1
137	Optimization modeling of an integrated supply chain network. , 2009, , .		0
138	Optimization of the deployment of utility scale solar plants. , 2013, , .		0
139	Screening scenario-based analysis of modifications in planning of semiconductor manufacturing. , 2014, , .		0