

# Ali H Diabat

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

133  
papers

7,093  
citations

45  
h-index

81  
g-index

140  
ext. papers

9,056  
ext. citations

5.8  
avg, IF

7.32  
L-index

#	Paper	IF	Citations
133	The supply chain of blood products in the wake of the COVID-19 pandemic: Appointment scheduling and other restrictions.. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , <b>2022</b> , 159, 102576	9	4
132	Chaotic binary Group Search Optimizer for feature selection. <i>Expert Systems With Applications</i> , <b>2022</b> , 192, 116368	7.8	9
131	Branch-and-price for a combined order selection and distribution problem in online community group-buying of perishable products. <i>Transportation Research Part B: Methodological</i> , <b>2022</b> , 158, 341-373	7.2	0
130	The Integrated Quay Crane Assignment and Scheduling Problems with Carbon Emissions Considerations. <i>Computers and Industrial Engineering</i> , <b>2021</b> , 165, 107734	6.4	4
129	Reliable closed-loop supply chain design problem under facility-type-dependent probabilistic disruptions. <i>Transportation Research Part B: Methodological</i> , <b>2021</b> , 146, 180-209	7.2	4
128	Vessel scheduling with pilotage and tugging considerations. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , <b>2021</b> , 148, 102231	9	2
127	The Arithmetic Optimization Algorithm. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2021</b> , 376, 113609	5.7	500
126	Intelligent workflow scheduling for Big Data applications in IoT cloud computing environments. <i>Cluster Computing</i> , <b>2021</b> , 24, 2957	2.1	25
125	A Novel Evolutionary Arithmetic Optimization Algorithm for Multilevel Thresholding Segmentation of COVID-19 CT Images. <i>Processes</i> , <b>2021</b> , 9, 1155	2.9	50
124	A novel hybrid antlion optimization algorithm for multi-objective task scheduling problems in cloud computing environments. <i>Cluster Computing</i> , <b>2021</b> , 24, 205-223	2.1	109
123	Multi-product and multi-period closed loop supply chain network design under take-back legislation. <i>International Journal of Production Economics</i> , <b>2021</b> , 231, 107879	9.3	14
122	Advances in Sine Cosine Algorithm: A comprehensive survey. <i>Artificial Intelligence Review</i> , <b>2021</b> , 54, 2567-2608	9.26	105
121	Designing a closed-loop supply chain network considering multi-task sales agencies and multi-mode transportation. <i>Soft Computing</i> , <b>2021</b> , 25, 6203-6235	3.5	17
120	The Fixed-Partition Policy Inventory Routing Problem. <i>Transportation Science</i> , <b>2021</b> , 55, 353-370	4.4	1
119	An integrated queuing-stochastic optimization hybrid Genetic Algorithm for a location-inventory supply chain network. <i>International Journal of Production Economics</i> , <b>2021</b> , 237, 108139	9.3	12
118	A Comprehensive Survey of the Harmony Search Algorithm in Clustering Applications. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 3827	2.6	52
117	Selection scheme sensitivity for a hybrid Salp Swarm Algorithm: analysis and applications. <i>Engineering With Computers</i> , <b>2020</b> , 1	4.5	19

116	Modeling and heuristics for production time crashing in supply chain network design. <i>Annals of Operations Research</i> , <b>2020</b> , 288, 331-361	3.2	5
115	Robust design of blood supply chains under risk of disruptions using Lagrangian relaxation. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , <b>2020</b> , 134, 101764	9	51
114	A coordinated location-inventory problem with supply disruptions: A two-phase queuing theory optimization model approach. <i>Computers and Industrial Engineering</i> , <b>2020</b> , 142, 106326	6.4	15
113	Designing a closed-loop supply chain network for citrus fruits crates considering environmental and economic issues. <i>Journal of Manufacturing Systems</i> , <b>2020</b> , 55, 199-220	9.1	25
112	Next-generation quay crane scheduling. <i>Transportation Research Part C: Emerging Technologies</i> , <b>2020</b> , 114, 694-715	8.4	5
111	Benders decomposition for multiple-allocation hub-and-spoke network design with economies of scale and node congestion. <i>Transportation Research Part B: Methodological</i> , <b>2020</b> , 133, 62-84	7.2	11
110	Leagile supplier selection in Chinese textile industries: a DEMATEL approach. <i>Annals of Operations Research</i> , <b>2020</b> , 287, 303-322	3.2	28
109	A comprehensive survey of the Grasshopper optimization algorithm: results, variants, and applications. <i>Neural Computing and Applications</i> , <b>2020</b> , 32, 15533-15556	4.8	92
108	Long-Term Electricity Demand Prediction via Socioeconomic Factors A Machine Learning Approach with Florida as a Case Study. <i>Energies</i> , <b>2020</b> , 13, 3996	3.1	8
107	The integrated berth allocation, quay crane assignment and scheduling problem: mathematical formulations and a case study. <i>Annals of Operations Research</i> , <b>2020</b> , 291, 435-461	3.2	14
106	Three parallel task assignment problems with shared resources. <i>IIE Transactions</i> , <b>2020</b> , 52, 478-485	3.3	1
105	Benders decomposition for the inventory vehicle routing problem with perishable products and environmental costs. <i>Computers and Operations Research</i> , <b>2020</b> , 113, 104751	4.6	34
104	A stochastic reverse logistics production routing model with emissions control policy selection. <i>International Journal of Production Economics</i> , <b>2019</b> , 213, 201-216	9.3	37
103	A Lagrangian heuristic and GRASP for the hub-and-spoke network system with economies-of-scale and congestion. <i>Transportation Research Part C: Emerging Technologies</i> , <b>2019</b> , 102, 249-273	8.4	18
102	The quay crane scheduling problem with non-crossing and safety clearance constraints: An exact solution approach. <i>Computers and Operations Research</i> , <b>2019</b> , 107, 189-199	4.6	12
101	Risks assessment in thermal power plants using ISM methodology. <i>Annals of Operations Research</i> , <b>2019</b> , 279, 89-113	3.2	16
100	Mathematical and optimization modelling in desalination: State-of-the-art and future direction. <i>Desalination</i> , <b>2019</b> , 469, 114092	10.3	41
99	A perishable product supply chain network design problem with reliability and disruption considerations. <i>International Journal of Production Economics</i> , <b>2019</b> , 212, 125-138	9.3	54

98	A two-stage multi-echelon stochastic blood supply chain problem. <i>Computers and Operations Research</i> , <b>2019</b> , 101, 130-143	4.6	52
97	Exam timetabling with allowable conflicts within a time window. <i>Computers and Industrial Engineering</i> , <b>2019</b> , 127, 263-273	6.4	6
96	Sustainability dimensions and PM2.5 in supply chain logistics. <i>Annals of Operations Research</i> , <b>2019</b> , 275, 339-366	3.2	15
95	An integrated flight scheduling and fleet assignment problem under uncertainty. <i>Computers and Operations Research</i> , <b>2018</b> , 100, 333-342	4.6	15
94	Exact methods for the quay crane scheduling problem when tasks are modeled at the single container level. <i>Computers and Operations Research</i> , <b>2018</b> , 99, 218-233	4.6	12
93	Large-scale reverse supply chain network design: An accelerated Benders decomposition algorithm. <i>Computers and Industrial Engineering</i> , <b>2018</b> , 124, 545-559	6.4	13
92	Supply chain network design with direct and indirect production costs: Hybrid gradient and local search based heuristics. <i>International Journal of Production Economics</i> , <b>2018</b> , 203, 203-215	9.3	8
91	Quay Crane Scheduling with Vessel Stability. <i>Transportation Research Procedia</i> , <b>2018</b> , 30, 60-69	2.4	4
90	Codeshare agreements in the integrated aircraft routing problem. <i>Transportation Research Part B: Methodological</i> , <b>2018</b> , 117, 272-295	7.2	1
89	A stochastic reverse logistics production routing model with environmental considerations. <i>Annals of Operations Research</i> , <b>2018</b> , 271, 1023-1044	3.2	29
88	The integrated aircraft routing problem with optional flights and delay considerations. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , <b>2018</b> , 118, 355-375	9	14
87	A stochastic micro-periodic age-based inventory replenishment policy for perishable goods. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , <b>2018</b> , 118, 445-465	9	19
86	Solving dynamic systems with multi-responses by integrating desirability function and data envelopment analysis. <i>Journal of Intelligent Manufacturing</i> , <b>2017</b> , 28, 387-403	6.7	10
85	A Lagrangian relaxation-based heuristic for the multi-ship quay crane scheduling problem with ship stability constraints. <i>Annals of Operations Research</i> , <b>2017</b> , 248, 1-24	3.2	27
84	On the optimal computing budget allocation problem for large scale simulation optimization. <i>Simulation Modelling Practice and Theory</i> , <b>2017</b> , 71, 149-159	3.9	8
83	A Genetic Algorithm for Reverse Logistics network design: A case study from the GCC. <i>Journal of Cleaner Production</i> , <b>2017</b> , 151, 652-669	10.3	55
82	An integrated berth allocation and yard assignment problem for bulk ports: Formulation and case study. <i>RAIRO - Operations Research</i> , <b>2017</b> , 51, 267-284	2.2	11
81	Incorporating location and inventory decisions into a supply chain design problem with uncertain demands and lead times. <i>Journal of Manufacturing Systems</i> , <b>2017</b> , 43, 139-149	9.1	42

80	A genetic algorithm approach for location-inventory-routing problem with perishable products. <i>Journal of Manufacturing Systems</i> , <b>2017</b> , 42, 93-103	9.1	150
79	A lot sizing model with partial downstream delayed payment, partial upstream advance payment, and partial backordering for deteriorating items. <i>Journal of Manufacturing Systems</i> , <b>2017</b> , 45, 322-342	9.1	50
78	A Chance-constrained operating room planning with elective and emergency cases under downstream capacity constraints. <i>Computers and Industrial Engineering</i> , <b>2017</b> , 114, 329-344	6.4	31
77	Integrating disassembly line balancing in the planning of a reverse logistics network from the perspective of a third party provider. <i>Annals of Operations Research</i> , <b>2017</b> , 253, 353-376	3.2	35
76	Utility subsidy reform in Abu Dhabi: A review and a Computable General Equilibrium analysis. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 55, 1352-1362	16.2	13
75	Modeling logistics service providers in a non-cooperative supply chain. <i>Applied Mathematical Modelling</i> , <b>2016</b> , 40, 6340-6358	4.5	16
74	A hybrid tabu search based heuristic for the periodic distribution inventory problem with perishable goods. <i>Annals of Operations Research</i> , <b>2016</b> , 242, 373-398	3.2	50
73	On the Berth Allocation Problem. <i>RAIRO - Operations Research</i> , <b>2016</b> , 50, 491-501	2.2	5
72	An Integrated Quay Crane Assignment and Scheduling Problem Using Branch-and-Price <b>2016</b> ,		4
71	Multiple-vendor, multiple-retailer based vendor-managed inventory. <i>Annals of Operations Research</i> , <b>2016</b> , 238, 277-297	3.2	9
70	The quay crane scheduling problem with nonzero crane repositioning time and vessel stability constraints. <i>Computers and Industrial Engineering</i> , <b>2016</b> , 94, 230-244	6.4	28
69	A decision making trial and evaluation laboratory approach to analyze the barriers to Green Supply Chain Management adoption in a food packaging company. <i>Journal of Cleaner Production</i> , <b>2016</b> , 117, 19-28	10.3	104
68	A capacitated facility location and inventory management problem with single sourcing. <i>Optimization Letters</i> , <b>2016</b> , 10, 1577-1592	1.1	23
67	A hybrid genetic algorithm based heuristic for an integrated supply chain problem. <i>Journal of Manufacturing Systems</i> , <b>2016</b> , 38, 172-180	9.1	53
66	Using AHP to evaluate barriers in adopting sustainable consumption and production initiatives in a supply chain. <i>International Journal of Production Economics</i> , <b>2016</b> , 181, 342-349	9.3	135
65	A simulation-based Genetic Algorithm approach for the quay crane scheduling under uncertainty. <i>Simulation Modelling Practice and Theory</i> , <b>2016</b> , 66, 122-138	3.9	46
64	A closed-loop supply chain management problem: Reformulation and piecewise linearization. <i>Journal of Manufacturing Systems</i> , <b>2016</b> , 40, 1-8	9.1	35
63	Goal-Oriented Requirements Engineering for Research-Intensive Complex Systems: A Case Study. <i>Systems Engineering</i> , <b>2016</b> , 19, 322-333	1.8	1

62	A stochastic model for operating room planning under capacity constraints. <i>International Journal of Production Research</i> , <b>2015</b> , 53, 7252-7270	7.8	34
61	An integrated supply chain problem: a nested lagrangian relaxation approach. <i>Annals of Operations Research</i> , <b>2015</b> , 229, 303-323	3.2	28
60	A multi-criteria optimization approach to manage environmental issues in closed loop supply chain network design. <i>Journal of Cleaner Production</i> , <b>2015</b> , 100, 297-314	10.3	94
59	Application of analytical hierarchy process to evaluate pressures to implement green supply chain management. <i>Journal of Cleaner Production</i> , <b>2015</b> , 107, 229-236	10.3	79
58	A reverse logistics network design. <i>Journal of Manufacturing Systems</i> , <b>2015</b> , 37, 589-598	9.1	96
57	The Quay Crane Scheduling Problem. <i>Journal of Manufacturing Systems</i> , <b>2015</b> , 36, 87-94	9.1	33
56	A Branch-and-Price Algorithm to Solve a Quay Crane Scheduling Problem. <i>Procedia Computer Science</i> , <b>2015</b> , 61, 527-532	1.6	7
55	An integrated supply chain problem with environmental considerations. <i>International Journal of Production Economics</i> , <b>2015</b> , 164, 330-338	9.3	72
54	A closed-loop location-inventory problem with spare parts consideration. <i>Computers and Operations Research</i> , <b>2015</b> , 54, 245-256	4.6	58
53	An improved Lagrangian relaxation-based heuristic for a joint location-inventory problem. <i>Computers and Operations Research</i> , <b>2015</b> , 61, 170-178	4.6	68
52	Analyzing the SSCM practices in the mining and mineral industry by ISM approach. <i>Resources Policy</i> , <b>2015</b> , 46, 76-85	7.2	58
51	A joint quay crane assignment and scheduling problem: formulation, solution algorithm and computational results. <i>Optimization Letters</i> , <b>2015</b> , 9, 799-817	1.1	28
50	A Lagrangian relaxation approach for solving the integrated quay crane assignment and scheduling problem. <i>Applied Mathematical Modelling</i> , <b>2015</b> , 39, 1194-1201	4.5	40
49	Analyzing the drivers of green manufacturing with fuzzy approach. <i>Journal of Cleaner Production</i> , <b>2015</b> , 96, 182-193	10.3	192
48	A cost based approach for a Crane Assignment and Scheduling Problem <b>2015</b> ,		5
47	Modelling and optimization of outpatient appointment scheduling. <i>RAIRO - Operations Research</i> , <b>2015</b> , 49, 435-450	2.2	1
46	Aggregate directional distance formulation of DEA with integer variables. <i>Annals of Operations Research</i> , <b>2015</b> , 235, 741-756	3.2	2
45	The Dynamic Berth Allocation Problem: A linearized formulation. <i>RAIRO - Operations Research</i> , <b>2015</b> , 49, 473-494	2.2	9

44	A location inventory supply chain problem: Reformulation and piecewise linearization. <i>Computers and Industrial Engineering</i> , <b>2015</b> , 90, 381-389	6.4	39
43	A simulation optimization approach for solving the dual-cycling problem in container terminals. <i>Maritime Policy and Management</i> , <b>2015</b> , 42, 806-826	2.5	27
42	Integrated smart grid systems security threat model. <i>Information Systems</i> , <b>2015</b> , 53, 147-160	2.7	32
41	Hybrid algorithm for a vendor managed inventory system in a two-echelon supply chain. <i>European Journal of Operational Research</i> , <b>2014</b> , 238, 114-121	5.6	69
40	An Integrated Quay Crane Assignment and Scheduling Problem. <i>Computers and Industrial Engineering</i> , <b>2014</b> , 73, 115-123	6.4	72
39	Analyzing the drivers of end-of-life tire management using interpretive structural modeling (ISM). <i>International Journal of Advanced Manufacturing Technology</i> , <b>2014</b> , 72, 1603-1614	3.2	44
38	Analysis of enablers for implementation of sustainable supply chain management: A textile case. <i>Journal of Cleaner Production</i> , <b>2014</b> , 83, 391-403	10.3	213
37	A multi-vessel quay crane assignment and scheduling problem: Formulation and heuristic solution approach. <i>Expert Systems With Applications</i> , <b>2014</b> , 41, 6959-6965	7.8	56
36	Optimizing tablets quality with multiple responses using fuzzy goal programming. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , <b>2014</b> , 228, 115-126	1.5	11
35	System Security Requirements Analysis: A Smart Grid Case Study. <i>Systems Engineering</i> , <b>2014</b> , 17, 77-88	1.8	16
34	An exploration of green supply chain practices and performances in an automotive industry. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2013</b> , 68, 949-961	3.2	108
33	Analysis of interaction between the barriers for the implementation of sustainable supply chain management. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2013</b> , 68, 895-905	3.2	119
32	Optimal design of a hybrid solar-wind power to drive a small-size reverse osmosis desalination plant. <i>Desalination and Water Treatment</i> , <b>2013</b> , 51, 3417-3427		14
31	A fuzzy multi criteria approach for evaluating green supplier's performance in green supply chain with linguistic preferences. <i>Resources, Conservation and Recycling</i> , <b>2013</b> , 74, 170-179	11.9	296
30	Solving a reverse supply chain design problem by improved Benders decomposition schemes. <i>Computers and Industrial Engineering</i> , <b>2013</b> , 66, 889-898	6.4	40
29	An optimization model for product returns using genetic algorithms and artificial immune system. <i>Resources, Conservation and Recycling</i> , <b>2013</b> , 74, 156-169	11.9	77
28	Strategic Closed-Loop Facility Location Problem With Carbon Market Trading. <i>IEEE Transactions on Engineering Management</i> , <b>2013</b> , 60, 398-408	2.6	93
27	A column generation-based heuristic algorithm for an inventory routing problem with perishable goods. <i>Optimization Letters</i> , <b>2013</b> , 7, 1481-1502	1.1	76

26	Optimizing convexity defect in a tile industry using fuzzy goal programming. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2013</b> , 46, 2807-2815	4.6	11
25	Overview of coordination contracts within forward and reverse supply chains. <i>Journal of Cleaner Production</i> , <b>2013</b> , 47, 319-334	10.3	159
24	Investigating the option of installing small scale PVs on facility rooftops in a green supply chain. <i>International Journal of Production Economics</i> , <b>2013</b> , 146, 465-477	9.3	41
23	Integrated fuzzy multi criteria decision making method and multi-objective programming approach for supplier selection and order allocation in a green supply chain. <i>Journal of Cleaner Production</i> , <b>2013</b> , 47, 355-367	10.3	475
22	AN EVALUATION OF VENDOR MANAGED INVENTORY PRACTICES FROM SMALL AND MEDIUM INDIAN ENTERPRISES. <i>Journal of Business Economics and Management</i> , <b>2013</b> , 14, S76-S95	2	13
21	A Lagrangian relaxation approach to simultaneous strategic and tactical planning in supply chain design. <i>Annals of Operations Research</i> , <b>2013</b> , 203, 55-80	3.2	62
20	Benchmarking the interactions among barriers in third-party logistics implementation. <i>Benchmarking</i> , <b>2013</b> , 20, 805-824	4	48
19	A carbon footprint based reverse logistics network design model. <i>Resources, Conservation and Recycling</i> , <b>2012</b> , 67, 75-79	11.9	166
18	Business interactions modeling for systems of systems engineering: Smart grid example <b>2012</b> ,		2
17	Supply chain risk management and its mitigation in a food industry. <i>International Journal of Production Research</i> , <b>2012</b> , 50, 3039-3050	7.8	158
16	Sustainable supply chain design: a closed-loop formulation and sensitivity analysis. <i>Production Planning and Control</i> , <b>2012</b> , 23, 120-133	4.3	102
15	Contract analysis: A performance measures and profit evaluation within two-echelon supply chains. <i>Computers and Industrial Engineering</i> , <b>2012</b> , 63, 58-74	6.4	36
14	Green supply chains with carbon trading and environmental sourcing: Formulation and life cycle assessment. <i>Applied Mathematical Modelling</i> , <b>2012</b> , 36, 4271-4285	4.5	135
13	A Simulated Annealing with Ranking and Selection for Stochastic Optimization. <i>Advanced Materials Research</i> , <b>2012</b> , 488-489, 1335-1340	0.5	1
12	An analysis of the drivers affecting the implementation of green supply chain management. <i>Resources, Conservation and Recycling</i> , <b>2011</b> , 55, 659-667	11.9	616
11	A multi-product capacitated inventory-location model with risk pooling <b>2010</b> ,		1
10	A carbon sensitive supply chain network problem with green procurement <b>2010</b> ,		24
9	An evolutionary programming approach for solving the capacitated facility location problem with risk pooling. <i>International Journal of Applied Decision Sciences</i> , <b>2009</b> , 2, 389	0.8	29



8	A simulated annealing technique for multi-objective simulation optimization. <i>Applied Mathematics and Computation</i> , <b>2009</b> , 215, 3029-3035	2.7	43
7	A carbon-capped supply chain network problem <b>2009</b> ,		61
6	A benchmark based AHP model for credit evaluation. <i>International Journal of Applied Decision Sciences</i> , <b>2009</b> , 2, 151	0.8	24
5	Improved gradual change-based Harris Hawks optimization for real-world engineering design problems. <i>Engineering With Computers</i> ,1	4.5	0
4	Improved multi-core arithmetic optimization algorithm-based ensemble mutation for multidisciplinary applications. <i>Journal of Intelligent Manufacturing</i> ,1	6.7	5
3	Improved slime mould algorithm by opposition-based learning and Levy flight distribution for global optimization and advances in real-world engineering problems. <i>Journal of Ambient Intelligence and Humanized Computing</i> ,1	3.7	8
2	Competitive bi-agent flowshop scheduling to minimise the weighted combination of makespans. <i>International Journal of Production Research</i> ,1-22	7.8	3
1	COVID-19 pandemic disruption: a matter of building companies' internal and external resilience. <i>International Journal of Production Research</i> ,1-22	7.8	6