

Mohamed Haouari

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.

128 papers	2,902 citations	27 h-index	48 g-index
130 ext. papers	3,400 ext. citations	3.4 avg, IF	5.7 L-index

#	Paper	IF	Citations
128	A novel proof of useful work for a blockchain storing transportation transactions. <i>Information Processing and Management</i> , 2022 , 59, 102749	6.3	7
127	A matheuristic for the robust integrated airline fleet assignment, aircraft routing, and crew pairing problem. <i>Computers and Operations Research</i> , 2022 , 137, 105551	4.6	1
126	Optimal design and operation of conventional, solar electric, and solar thermal district cooling systems. <i>Energy Science and Engineering</i> , 2022 , 10, 324-339	3.4	0
125	Fluoroborophosphate glasses doped with Cr ³⁺ , Nd ³⁺ and Yb ³⁺ as efficient light converters for silicon based solar cells. <i>Journal of Non-Crystalline Solids</i> , 2022 , 591, 121707	3.9	
124	Impact of the stacking fault and surface defects states of colloidal CdSe nanocrystals on the removal of reactive black 5. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021 , 265, 115029	3.1	2
123	Green hydrogen for industrial sector decarbonization: Costs and impacts on hydrogen economy in qatar. <i>Computers and Chemical Engineering</i> , 2021 , 145, 107144	4	22
122	Parcel delivery by vehicle and drone. <i>Journal of the Operational Research Society</i> , 2021 , 72, 398-416	2	13
121	Combinatorial Benders Decomposition for the Two-Dimensional Bin Packing Problem. <i>INFORMS Journal on Computing</i> , 2021 , 33, 963-978	2.4	4
120	A particle swarm optimization approach for predicting the number of COVID-19 deaths. <i>Scientific Reports</i> , 2021 , 11, 16587	4.9	3
119	High impact of thiol capped ZnS nanocrystals on the degradation of single and binary aqueous solutions of industrial azo dyes under sunlight. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105915	6.8	3
118	Data of the design of solar assisted district cooling systems. <i>Data in Brief</i> , 2020 , 30, 105541	1.2	4
117	Optimization of design and operation of solar assisted district cooling systems. <i>Energy Conversion and Management: X</i> , 2020 , 6, 100028	2.5	4
116	Effect of temperature and etching under light irradiation on the band edge emission of Mercaptoethanol-capped CdS colloidal nanocrystals. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 2416-2427	2.1	
115	Exact approaches for routing capacitated electric vehicles. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2020 , 144, 102126	9	11
114	A simulation-optimization approach for the stochastic discrete cost multicommodity flow problem. <i>Engineering Optimization</i> , 2020 , 52, 507-526	2	2
113	An exact approach for the multicommodity network optimization problem with a step cost function. <i>RAIRO - Operations Research</i> , 2019 , 53, 1279-1295	2.2	2
112	A New Compact Formulation for the Daily Crew Pairing Problem. <i>Transportation Science</i> , 2019 ,	4.4	1

111	On Network Flow Maximization via Multihop Backhauling and UAVs: An Integer Programming Approach 2019 ,		2
110	An Efficient Algorithm for Dense Network Flow Maximization with Multihop Backhauling and NFPs 2019 ,		1
109	Optimal design of a district cooling grid: structure, technology integration, and operation. <i>Engineering Optimization</i> , 2019 , 51, 160-183	2	4
108	Short-term planning of liquefied natural gas deliveries. <i>Transportation Research Part C: Emerging Technologies</i> , 2018 , 90, 393-410	8.4	12
107	Use of MPA-capped CdS quantum dots for sensitive detection and quantification of Co ions in aqueous solution. <i>Analytica Chimica Acta</i> , 2018 , 1028, 50-58	6.6	29
106	A matheuristic for the asymmetric capacitated vehicle routing problem. <i>Discrete Applied Mathematics</i> , 2018 , 234, 139-150	1	10
105	Integrated assortment planning and store-wide shelf space allocation: An optimization-based approach. <i>Omega</i> , 2018 , 81, 134-149	7.2	24
104	A theoretical and experimental study of fast lower bounds for the two-dimensional bin packing problem. <i>RAIRO - Operations Research</i> , 2018 , 52, 391-414	2.2	4
103	Robust integrated maintenance aircraft routing and crew pairing. <i>Journal of Air Transport Management</i> , 2018 , 73, 15-31	5.1	10
102	Maximizing Dense Network Flow through Wireless Multihop Backhauling using UAVs 2018 ,		5
101	A Novel Model and Decomposition Approach for the Integrated Airline Fleet Assignment, Aircraft Routing, and Crew Pairing Problem. <i>Transportation Science</i> , 2017 , 51, 233-249	4.4	19
100	A simulation-optimisation approach for supply chain network design under supply and demand uncertainties. <i>International Journal of Production Research</i> , 2017 , 55, 1845-1861	7.8	25
99	Optical temperature sensing using green emissions of Er ³⁺ doped fluoro-tellurite glass. <i>Sensors and Actuators A: Physical</i> , 2017 , 261, 235-242	3.9	47
98	Lifted polynomial size formulations for the homogeneous and heterogeneous vehicle routing problems. <i>European Journal of Operational Research</i> , 2017 , 263, 755-767	5.6	5
97	Review of optimization techniques applied for the integration of distributed generation from renewable energy sources. <i>Renewable Energy</i> , 2017 , 113, 266-280	8.1	225
96	A practical solution approach for the green vehicle routing problem. <i>Transportation Research, Part E: Logistics and Transportation Review</i> , 2017 , 104, 97-112	9	56
95	Interaction of L-cysteine functionalized CdSe quantum dots with metallic cations and selective binding of cobalt in water probed by fluorescence. <i>Sensors and Actuators B: Chemical</i> , 2017 , 243, 489-499	8.5	19
94	A hybrid optimization-simulation approach for robust weekly aircraft routing and retiming. <i>Transportation Research Part C: Emerging Technologies</i> , 2017 , 84, 1-20	8.4	13

93	Solving a large-scale integrated fleet assignment and crew pairing problem. <i>Annals of Operations Research</i> , 2017 , 253, 477-500	3.2	10
92	A two-level optimization approach for robust aircraft routing and retiming. <i>Computers and Industrial Engineering</i> , 2017 , 112, 586-594	6.4	15
91	Optimal planning of liquefied natural gas deliveries. <i>Transportation Research Part C: Emerging Technologies</i> , 2016 , 69, 79-90	8.4	15
90	An optimization-based heuristic for the machine reassignment problem. <i>Annals of Operations Research</i> , 2016 , 242, 115-132	3.2	3
89	A Free-Slack-Based Genetic Algorithm for the Robotic Cell Problem with Controllable Processing Times. <i>Profiles in Operations Research</i> , 2016 , 77-93	1	2
88	Exact Solution Methods for a Generalized Assignment Problem with Location/Allocation Considerations. <i>INFORMS Journal on Computing</i> , 2016 , 28, 589-602	2.4	9
87	Optimization-Based Very Large-Scale Neighborhood Search for Generalized Assignment Problems with Location/Allocation Considerations. <i>INFORMS Journal on Computing</i> , 2016 , 28, 575-588	2.4	11
86	HRTEM study of the variation of TNTs morphology synthesized via hydrothermal method at different reaction times. <i>Current Applied Physics</i> , 2016 , 16, 1308-1314	2.6	2
85	Synthesis, characterization and spectral temperature-dependence of thioglycerol-CdSe nanocrystals. <i>Journal of Luminescence</i> , 2016 , 177, 402-408	3.8	14
84	A model and optimization-based heuristic for the operational aircraft maintenance routing problem. <i>Transportation Research Part C: Emerging Technologies</i> , 2016 , 72, 29-44	8.4	24
83	Solving a large-scale crew pairing problem. <i>Journal of the Operational Research Society</i> , 2015 , 66, 1742-1754	15.4	8
82	Robust Optimization for the Discrete Time-Cost Tradeoff Problem with Cost Uncertainty 2015 , 865-874		3
81	A hybrid simulation-optimization approach for the robust Discrete Time/Cost Trade-off Problem. <i>Applied Mathematics and Computation</i> , 2015 , 259, 628-636	2.7	19
80	Optimization models for a single-plant District Cooling System. <i>European Journal of Operational Research</i> , 2015 , 247, 648-658	5.6	25
79	Thioglycerol-functionalized CdSe quantum dots detecting cadmium ions. <i>Sensors and Actuators B: Chemical</i> , 2015 , 220, 1346-1353	8.5	50
78	An exact algorithm for the single machine problem with unavailability periods. <i>European Journal of Industrial Engineering</i> , 2015 , 9, 244	1.1	2
77	A PSO approach for robust aircraft routing 2015 ,		1
76	A preemptive bound for the Resource Constrained Project Scheduling Problem. <i>Journal of Scheduling</i> , 2014 , 17, 237-248	1.6	7

75	The Steiner Tree Problem with Delays: A compact formulation and reduction procedures. <i>Discrete Applied Mathematics</i> , 2014 , 164, 178-190	1	13
74	Improved bounds for hybrid flow shop scheduling with multiprocessor tasks. <i>Computers and Industrial Engineering</i> , 2013 , 66, 1106-1114	6.4	14
73	A Lifted Compact Formulation for the Daily Aircraft Maintenance Routing Problem. <i>Transportation Science</i> , 2013 , 47, 508-525	4.4	31
72	A benders decomposition approach for an integrated airline schedule design and fleet assignment problem with flight retiming, schedule balance, and demand recapture. <i>Annals of Operations Research</i> , 2013 , 210, 213-244	3.2	30
71	Solving the steiner tree problem with revenues, budget and hop constraints to optimality 2013 ,		2
70	A model for enhancing robustness of aircraft and passenger connections. <i>Transportation Research Part C: Emerging Technologies</i> , 2013 , 32, 48-60	8.4	21
69	An assignment-based lower bound for a class of two-machine flow shop problems. <i>Computers and Operations Research</i> , 2013 , 40, 1693-1699	4.6	11
68	Tight compact models and comparative analysis for the prize collecting Steiner tree problem. <i>Discrete Applied Mathematics</i> , 2013 , 161, 618-632	1	11
67	Enhanced compact models for the connected subgraph problem and for the shortest path problem in digraphs with negative cycles. <i>Computers and Operations Research</i> , 2013 , 40, 2485-2492	4.6	7
66	A branch-and-price algorithm for the two-stage guillotine cutting stock problem. <i>Journal of the Operational Research Society</i> , 2013 , 64, 629-637	2	16
65	MIP models for minimizing total tardiness in a two-machine flow shop. <i>Journal of the Operational Research Society</i> , 2013 , 64, 690-707	2	9
64	An Integrated Approach for Airline Flight Selection and Timing, Fleet Assignment, and Aircraft Routing. <i>Transportation Science</i> , 2013 , 47, 455-476	4.4	35
63	Development of lower bounds for the scheduling of setup tasks in serial production lines. <i>European Journal of Industrial Engineering</i> , 2013 , 7, 558	1.1	3
62	Enhanced energetic reasoning-based lower bounds for the resource constrained project scheduling problem. <i>Computers and Operations Research</i> , 2012 , 39, 1187-1194	4.6	6
61	A branch-and-cut algorithm for the Steiner tree problem with delays. <i>Optimization Letters</i> , 2012 , 6, 1753-1771	1.7	11
60	Branch-and-bound algorithm for total weighted tardiness minimization on parallel machines under release dates assumptions. <i>RAIRO - Operations Research</i> , 2012 , 46, 125-147	2.2	1
59	Flexible aircraft fleet and routing at TunisAir. <i>Journal of the Operational Research Society</i> , 2011 , 62, 368-380	2	13
58	Exact methods for the robotic cell problem. <i>Flexible Services and Manufacturing Journal</i> , 2011 , 23, 242-261	18	6

57	Relaxations and exact solution of the variable sized bin packing problem. <i>Computational Optimization and Applications</i> , 2011 , 48, 345-368	1.4	20
56	Exact approaches for integrated aircraft fleetling and routing at TunisAir. <i>Computational Optimization and Applications</i> , 2011 , 49, 213-239	1.4	19
55	Solving two-stage hybrid flow shop using climbing depth-bounded discrepancy search. <i>Computers and Industrial Engineering</i> , 2011 , 60, 320-327	6.4	14
54	Bounding strategies for the hybrid flow shop scheduling problem. <i>Applied Mathematics and Computation</i> , 2011 , 217, 8248-8263	2.7	16
53	Climbing Depth-Bounded Adjacent Discrepancy Search for Solving Hybrid Flow Shop Scheduling Problems with Multiprocessor Tasks. <i>Lecture Notes in Computer Science</i> , 2011 , 117-130	0.9	3
52	Integrated Airline Schedule Design and Fleet Assignment: Polyhedral Analysis and BendersW Decomposition Approach. <i>INFORMS Journal on Computing</i> , 2010 , 22, 500-513	2.4	43
51	Discrete time/cost trade-off problem: A decomposition-based solution algorithm for the budget version. <i>Computers and Operations Research</i> , 2010 , 37, 649-655	4.6	41
50	Discrepancy search for the flexible job shop scheduling problem. <i>Computers and Operations Research</i> , 2010 , 37, 2192-2201	4.6	56
49	An optimization-based heuristic for the robotic cell problem. <i>European Journal of Operational Research</i> , 2010 , 202, 636-645	5.6	32
48	An Exact Algorithm for the Steiner Tree Problem with Delays. <i>Electronic Notes in Discrete Mathematics</i> , 2010 , 36, 223-230	0.3	9
47	IP-Based Energetic Reasoning for the Resource Constrained Project Scheduling Problem. <i>Electronic Notes in Discrete Mathematics</i> , 2010 , 36, 359-366	0.3	5
46	Robust scheduling and robustness measures for the discrete time/cost trade-off problem. <i>European Journal of Operational Research</i> , 2010 , 207, 633-643	5.6	92
45	Robust Aircraft Routing and Flight Retiming. <i>Electronic Notes in Discrete Mathematics</i> , 2010 , 36, 367-374	0.3	6
44	Strength of Three MIP Formulations for the Prize Collecting Steiner Tree Problem with a Quota Constraint. <i>Electronic Notes in Discrete Mathematics</i> , 2010 , 36, 495-502	0.3	4
43	Climbing discrepancy search for flowshop and jobshop scheduling with time lags. <i>Electronic Notes in Discrete Mathematics</i> , 2010 , 36, 821-828	0.3	2
42	Algorithmic expedients for the Prize Collecting Steiner Tree Problem. <i>Discrete Optimization</i> , 2010 , 7, 32-47	1	9
41	Exact Method for Robotic Cell Problem. <i>Electronic Notes in Discrete Mathematics</i> , 2010 , 36, 859-866	0.3	8
40	A Computational Study of Lower Bounds for the Two Dimensional Bin Packing Problem. <i>Electronic Notes in Discrete Mathematics</i> , 2010 , 36, 891-897	0.3	1

39	Approximation algorithms for single machine scheduling with one unavailability period. <i>4or</i> , 2009 , 7, 79-92	1.4	14
38	Network flow-based approaches for integrated aircraft fleetling and routing. <i>European Journal of Operational Research</i> , 2009 , 193, 591-599	5.6	26
37	Heuristics for the variable sized bin-packing problem. <i>Computers and Operations Research</i> , 2009 , 36, 2877-2884	4.8	50
36	Scheduling on parallel identical machines to minimise the total weighted tardiness. <i>International Journal of Advanced Operations Management</i> , 2009 , 1, 30	0.8	2
35	Tight bounds for the identical parallel machine-scheduling problem: Part II. <i>International Transactions in Operational Research</i> , 2008 , 15, 19-34	2.9	17
34	The prize collecting Steiner tree problem: models and Lagrangian dual optimization approaches. <i>Computational Optimization and Applications</i> , 2008 , 40, 13-39	1.4	13
33	Energetic reasoning revisited: application to parallel machine scheduling. <i>Journal of Scheduling</i> , 2008 , 11, 239-252	1.6	11
32	Maximizing the minimum completion time on parallel machines. <i>4or</i> , 2008 , 6, 375-392	1.4	14
31	Optimal solution of the discrete cost multicommodity network design problem. <i>Applied Mathematics and Computation</i> , 2008 , 204, 745-753	2.7	10
30	A two-stage-priority-rule-based algorithm for robust resource-constrained project scheduling. <i>Computers and Industrial Engineering</i> , 2008 , 55, 183-194	6.4	91
29	On the hybrid flowshop scheduling problem. <i>International Journal of Production Economics</i> , 2008 , 113, 495-497	9.3	14
28	Minimizing maximum lateness in a flow shop subject to release dates. <i>Journal of the Operational Research Society</i> , 2007 , 58, 62-72	2	4
27	An approximate decomposition algorithm for scheduling on parallel machines with heads and tails. <i>Computers and Operations Research</i> , 2007 , 34, 868-883	4.6	17
26	Supplier selection and order lot sizing modeling: A review. <i>Computers and Operations Research</i> , 2007 , 34, 3516-3540	4.6	418
25	Optimum synthesis of discrete capacitated networks with multi-terminal commodity flow requirements. <i>Optimization Letters</i> , 2007 , 1, 341-354	1.1	6
24	Climbing depth-bounded discrepancy search for solving hybrid flow shop problems. <i>European Journal of Industrial Engineering</i> , 2007 , 1, 223	1.1	23
23	Adaptation of Discrepancy-based Methods for Solving Hybrid Flow Shop Problems 2006 ,		2
22	Tight bounds for the identical parallel machine scheduling problem. <i>International Transactions in Operational Research</i> , 2006 , 13, 529-548	2.9	30

21	A hybrid Lagrangian genetic algorithm for the prize collecting Steiner tree problem. <i>Computers and Operations Research</i> , 2006 , 33, 1274-1288	4.6	30
20	Upper and lower bounding strategies for the generalized minimum spanning tree problem. <i>European Journal of Operational Research</i> , 2006 , 171, 632-647	5.6	12
19	Optimal Scheduling of a Two-stage Hybrid Flow Shop. <i>Mathematical Methods of Operations Research</i> , 2006 , 64, 107-124	1	43
18	Solving the generalized minimum spanning tree problem by a branch-and-bound algorithm. <i>Journal of the Operational Research Society</i> , 2005 , 56, 382-389	2	8
17	A bi-objective model for robust resource-constrained project scheduling. <i>International Journal of Production Economics</i> , 2005 , 96, 175-187	9.3	163
16	Optimal parallel machines scheduling with availability constraints. <i>Discrete Applied Mathematics</i> , 2005 , 148, 63-87	1	28
15	A computational study of the permutation flow shop problem based on a tight lower bound. <i>Computers and Operations Research</i> , 2005 , 32, 1831-1847	4.6	37
14	Fast lifting procedures for the bin packing problem. <i>Discrete Optimization</i> , 2005 , 2, 201-218	1	16
13	Lower Bounds for Scheduling on Identical Parallel Machines with Heads and Tails. <i>Annals of Operations Research</i> , 2004 , 129, 187-204	3.2	12
12	Ant-Tree: an ant colony optimization approach to the generalized minimum spanning tree problem. <i>Journal of Experimental and Theoretical Artificial Intelligence</i> , 2003 , 15, 103-112	2	23
11	An improved max-flow-based lower bound for minimizing maximum lateness on identical parallel machines. <i>Operations Research Letters</i> , 2003 , 31, 49-52	1	17
10	A branch-and-bound-based local search method for the flow shop problem. <i>Journal of the Operational Research Society</i> , 2003 , 54, 1076-1084	2	24
9	Minimizing makespan on parallel machines subject to release dates and delivery times. <i>Journal of Scheduling</i> , 2002 , 5, 329-355	1.6	46
8	A probabilistic greedy search algorithm for combinatorial optimisation with application to the set covering problem. <i>Journal of the Operational Research Society</i> , 2002 , 53, 792-799	2	25
7	Optimal cropping patterns under water deficits. <i>European Journal of Operational Research</i> , 2001 , 130, 133-146	5.6	46
6	Generalized spanning trees. <i>European Journal of Operational Research</i> , 2000 , 120, 583-592	5.6	47
5	Generalized Steiner Problems and Other Variants. <i>Journal of Combinatorial Optimization</i> , 2000 , 4, 415-436	9	21
4	Optimal scheduling of the 3-machine assembly-type flow shop. <i>RAIRO - Operations Research</i> , 1999 , 33, 439-445	2.2	29

3	An EOQ lot sizing model with random supplier capacity. <i>International Journal of Production Economics</i> , 1999 , 58, 39-47	9.3	22
2	Heuristic algorithms for the two-stage hybrid flowshop problem. <i>Operations Research Letters</i> , 1997 , 21, 43-53	1	66
1	OPTICAL ABSORPTION AND EPR STUDY OF TRANSITION METAL IONS DOPED PHOSPHATE GLASSES. <i>Phosphorus Research Bulletin</i> , 1996 , 6, 241-244	0.3	7