

Tarek ElMekkawy

List of Publications by Year in descending order

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61
papers

1,795
citations

331259

21
h-index

276539

41
g-index

61
all docs

61
docs citations

61
times ranked

1631
citing authors

#	ARTICLE	IF	CITATIONS
1	Economic Energy Allocation of Conventional and Large-Scale PV Power Plants. Applied Sciences (Switzerland), 2022, 12, 1362.	1.3	3
2	System requirements and optimization of multi-chillers district cooling plants. Energy, 2022, 246, 123349.	4.5	8
3	Solar Technology and District Cooling System in a Hot Climate Regions: Optimal Configuration and Technology Selection. Energies, 2022, 15, 2657.	1.6	3
4	Optimal design and operation of conventional, solar electric, and solar thermal district cooling systems. Energy Science and Engineering, 2022, 10, 324-339.	1.9	4
5	Distributed permutation flowshop scheduling problem with total completion time objective. Opsearch, 2021, 58, 425-447.	1.1	14
6	Mixed fleet based green clustered logistics problem under carbon emission cap. Sustainable Cities and Society, 2021, 72, 103074.	5.1	19
7	Hybrid particle swarm optimization algorithm for solving the clustered vehicle routing problem. Applied Soft Computing Journal, 2021, 110, 107655.	4.1	51
8	Data of the design of solar assisted district cooling systems. Data in Brief, 2020, 30, 105541.	0.5	8
9	Optimization of design and operation of solar assisted district cooling systems. Energy Conversion and Management: X, 2020, 6, 100028.	0.9	10
10	A sorting based efficient heuristic for pooled repair shop designs. Computers and Operations Research, 2020, 117, 104887.	2.4	11
11	An Efficient Heuristic for Pooled Repair Shop Designs. Communications in Computer and Information Science, 2019, , 102-118.	0.4	0
12	Cross-training policies for repair shops with spare part inventories. International Journal of Production Economics, 2019, 209, 334-345.	5.1	24
13	Vehicle routing problem in omni-channel retailing distribution systems. International Journal of Production Economics, 2018, 196, 43-55.	5.1	49
14	A clustering-based repair shop design for repairable spare part supply systems. Computers and Industrial Engineering, 2018, 125, 232-244.	3.4	10
15	A Pooling Strategy for Flexible Repair Shop Designs. , 2018, , .		2
16	Simulation based particle swarm optimization of cross-training policies in spare parts supply systems. , 2017, , .		7
17	Multi-objective optimisation of facility location decisions within integrated forward/reverse logistics under uncertainty. International Journal of Business Performance and Supply Chain Modelling, 2016, 8, 250.	0.2	12
18	Integrated Optimization for Stock Levels and Cross-Training Schemes with Simulation-Based Genetic Algorithm. , 2016, , .		6

#	ARTICLE	IF	CITATIONS
19	Stochastic Optimization of Hybrid Renewable Energy Systems. , 2015, , .		1
20	Stochastic Optimization of the Repair Shops Location Problem Using Particle Swarm Optimization Algorithm. , 2015, , .		0
21	Bi-criteria appointment scheduling of patients with heterogeneous service sequences. Expert Systems With Applications, 2015, 42, 4029-4041.	4.4	27
22	Optimal design of hybrid renewable energy systems in buildings with low to high renewable energy ratio. Renewable Energy, 2015, 83, 1026-1042.	4.3	91
23	Hybridized ant colony algorithm for the Multi Compartment Vehicle Routing Problem. Applied Soft Computing Journal, 2015, 37, 196-203.	4.1	92
24	Stochastic optimization of hybrid renewable energy systems using sampling average method. Renewable and Sustainable Energy Reviews, 2015, 52, 1668-1679.	8.2	69
25	Distribution-service Network Design: An Agent-based Approach. Procedia CIRP, 2014, 17, 651-656.	1.0	3
26	Solving the no-wait flow-shop problem with sequence-dependent set-up times. International Journal of Computer Integrated Manufacturing, 2014, 27, 213-228.	2.9	23
27	A dynamic MOPSO algorithm for multiobjective optimal design of hybrid renewable energy systems. International Journal of Energy Research, 2014, 38, 1949-1963.	2.2	47
28	Facility Location Decisions within Integrated Forward/Reverse Logistics under Uncertainty. Procedia CIRP, 2014, 17, 606-610.	1.0	14
29	Robust Metaheuristics for Scheduling Cellular Flowshop with Family Sequence-Dependent Setup Times. Procedia CIRP, 2014, 17, 428-433.	1.0	8
30	Optimizing Multi-objective Dynamic Facility Location Decisions within Green Distribution Network Design. Procedia CIRP, 2014, 17, 675-679.	1.0	18
31	Multi-objective optimal design of hybrid renewable energy systems using PSO-simulation based approach. Renewable Energy, 2014, 68, 67-79.	4.3	316
32	Two-machine, no-wait job shop problem with separable setup times and single-server constraints. International Journal of Advanced Manufacturing Technology, 2013, 65, 295-308.	1.5	8
33	Modeling, Simulation and Control of Flat Panel Solar Collectors with Thermal Storage for Heating and Cooling Applications. Procedia Computer Science, 2013, 19, 686-693.	1.2	14
34	Appointment scheduling of outpatient surgical services in a multistage operating room department. International Journal of Production Economics, 2013, 141, 646-658.	5.1	96
35	Studying the effect of different combinations of timetabling with sequencing algorithms to solve the no-wait job shop scheduling problem. International Journal of Production Research, 2013, 51, 4942-4965.	4.9	13
36	Improvement in the operating room efficiency using Tabu search in simulation. Business Process Management Journal, 2013, 19, 799-818.	2.4	20

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37	Scheduling identical parallel machine with unequal job release time to minimise total flow time. International Journal of Industrial and Systems Engineering, 2013, 13, 409.	0.1	9
38	Buffer size determination for drum-buffer-rope controlled supply chain networks. International Journal of Agile Systems and Management, 2012, 5, 151.	0.6	3
39	A meta-heuristic approach for solving the no-wait flow-shop problem. International Journal of Production Research, 2012, 50, 7313-7326.	4.9	39
40	A genetic algorithm and particle swarm optimization for no-wait flow shop problem with separable setup times and makespan criterion. International Journal of Advanced Manufacturing Technology, 2012, 61, 1101-1114.	1.5	22
41	An efficient hybrid algorithm for the two-machine no-wait flow shop problem with separable setup times and single server. European Journal of Industrial Engineering, 2011, 5, 111.	0.5	24
42	Robust and stable flexible job shop scheduling with random machine breakdowns using a hybrid genetic algorithm. International Journal of Production Economics, 2011, 132, 279-291.	5.1	191
43	Deadlock prevention and performance oriented supervision in flexible manufacturing cells: A hierarchical approach. Robotics and Computer-Integrated Manufacturing, 2011, 27, 591-603.	6.1	9
44	Developing an efficient scheduling template of a chemotherapy treatment unit: A case study. Australasian Medical Journal, 2011, 4, 575-588.	0.1	32
45	Mathematical formulations for scheduling in manufacturing cells with limited capacity buffers. International Journal of Operational Research, 2010, 7, 463.	0.1	12
46	A generic deadlock-free reactive scheduling approach. International Journal of Production Research, 2009, 47, 5657-5676.	4.9	23
47	A new memetic algorithm for optimizing the partitioning problem of tandem AGV systems. International Journal of Production Economics, 2009, 118, 508-520.	5.1	32
48	Meta-heuristics for scheduling a flowline manufacturing cell with sequence dependent family setup times. International Journal of Production Economics, 2008, 111, 593-605.	5.1	78
49	Mode Pursuing Sampling Method for Discrete Variable Optimization on Expensive Black-Box Functions. Journal of Mechanical Design, Transactions of the ASME, 2008, 130, .	1.7	45
50	Deadlock-free scheduling of flexible job shops with limited capacity buffers. European Journal of Industrial Engineering, 2008, 2, 231.	0.5	16
51	Enhanced Multi-Agent Normal Sampling Technique for Global Optimization. , 2008, , .		0
52	Bi-criteria scheduling of a flowshop manufacturing cell with sequence dependent setup times. European Journal of Industrial Engineering, 2007, 1, 391.	0.5	26
53	Job shop deadlock-free scheduling using Mixed Integer Programming and rank matrices. , 2007, , .		2
54	Analysis of reactive deadlock-free scheduling in flexible job shops. Flexible Services and Manufacturing Journal, 2007, 19, 264-285.	0.4	4

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55	Multi Agent Normal Sampling Technique (MANST) for Global Optimization. , 2007, , .		0
56	A cost based evaluation of a zones formation algorithm in tandem AGV systems. International Journal of Advanced Manufacturing Technology, 2006, 31, 175-187.	1.5	7
57	Real-time scheduling with deadlock avoidance in flexible manufacturing systems. International Journal of Advanced Manufacturing Technology, 2003, 22, 259-270.	1.5	27
58	Efficient search of Petri Nets for deadlock-free scheduling in FMSs using heuristic functions. International Journal of Computer Integrated Manufacturing, 2003, 16, 14-24.	2.9	20
59	Deadlock-free scheduling in flexible manufacturing systems using Petri nets. International Journal of Production Research, 2002, 40, 2733-2756.	4.9	57
60	Deadlock-free Rescheduling in Flexible Manufacturing Systems. CIRP Annals - Manufacturing Technology, 2002, 51, 371-374.	1.7	13
61	A Heuristic Search Approach for Deadlock-Free Scheduling in FMSS Using Petri Nets and AI Techniques. , 1998, , .		3