

Tarek ElMekkawy

List of Publications by Year in descending order

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Version: 2024-02-01

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 | Multi-objective optimal design of hybrid renewable energy systems using PSO-simulation based approach. <i>Renewable Energy</i> , 2014, 68, 67-79. | 4.3 | 316 |
| 2 | Robust and stable flexible job shop scheduling with random machine breakdowns using a hybrid genetic algorithm. <i>International Journal of Production Economics</i> , 2011, 132, 279-291. | 5.1 | 191 |
| 3 | Appointment scheduling of outpatient surgical services in a multistage operating room department. <i>International Journal of Production Economics</i> , 2013, 141, 646-658. | 5.1 | 96 |
| 4 | Hybridized ant colony algorithm for the Multi Compartment Vehicle Routing Problem. <i>Applied Soft Computing Journal</i> , 2015, 37, 196-203. | 4.1 | 92 |
| 5 | Optimal design of hybrid renewable energy systems in buildings with low to high renewable energy ratio. <i>Renewable Energy</i> , 2015, 83, 1026-1042. | 4.3 | 91 |
| 6 | Meta-heuristics for scheduling a flowline manufacturing cell with sequence dependent family setup times. <i>International Journal of Production Economics</i> , 2008, 111, 593-605. | 5.1 | 78 |
| 7 | Stochastic optimization of hybrid renewable energy systems using sampling average method. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 52, 1668-1679. | 8.2 | 69 |
| 8 | Deadlock-free scheduling in flexible manufacturing systems using Petri nets. <i>International Journal of Production Research</i> , 2002, 40, 2733-2756. | 4.9 | 57 |
| 9 | Hybrid particle swarm optimization algorithm for solving the clustered vehicle routing problem. <i>Applied Soft Computing Journal</i> , 2021, 110, 107655. | 4.1 | 51 |
| 10 | Vehicle routing problem in omni-channel retailing distribution systems. <i>International Journal of Production Economics</i> , 2018, 196, 43-55. | 5.1 | 49 |
| 11 | A dynamic MOPSO algorithm for multiobjective optimal design of hybrid renewable energy systems. <i>International Journal of Energy Research</i> , 2014, 38, 1949-1963. | 2.2 | 47 |
| 12 | Mode Pursuing Sampling Method for Discrete Variable Optimization on Expensive Black-Box Functions. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2008, 130, . | 1.7 | 45 |
| 13 | A meta-heuristic approach for solving the no-wait flow-shop problem. <i>International Journal of Production Research</i> , 2012, 50, 7313-7326. | 4.9 | 39 |
| 14 | A new memetic algorithm for optimizing the partitioning problem of tandem AGV systems. <i>International Journal of Production Economics</i> , 2009, 118, 508-520. | 5.1 | 32 |
| 15 | Developing an efficient scheduling template of a chemotherapy treatment unit: A case study. <i>Australasian Medical Journal</i> , 2011, 4, 575-588. | 0.1 | 32 |
| 16 | Real-time scheduling with deadlock avoidance in flexible manufacturing systems. <i>International Journal of Advanced Manufacturing Technology</i> , 2003, 22, 259-270. | 1.5 | 27 |
| 17 | Bi-criteria appointment scheduling of patients with heterogeneous service sequences. <i>Expert Systems With Applications</i> , 2015, 42, 4029-4041. | 4.4 | 27 |
| 18 | Bi-criteria scheduling of a flowshop manufacturing cell with sequence dependent setup times. <i>European Journal of Industrial Engineering</i> , 2007, 1, 391. | 0.5 | 26 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | An efficient hybrid algorithm for the two-machine no-wait flow shop problem with separable setup times and single server. <i>European Journal of Industrial Engineering</i> , 2011, 5, 111. | 0.5 | 24 |
| 20 | Cross-training policies for repair shops with spare part inventories. <i>International Journal of Production Economics</i> , 2019, 209, 334-345. | 5.1 | 24 |
| 21 | A generic deadlock-free reactive scheduling approach. <i>International Journal of Production Research</i> , 2009, 47, 5657-5676. | 4.9 | 23 |
| 22 | Solving the no-wait flow-shop problem with sequence-dependent set-up times. <i>International Journal of Computer Integrated Manufacturing</i> , 2014, 27, 213-228. | 2.9 | 23 |
| 23 | A genetic algorithm and particle swarm optimization for no-wait flow shop problem with separable setup times and makespan criterion. <i>International Journal of Advanced Manufacturing Technology</i> , 2012, 61, 1101-1114. | 1.5 | 22 |
| 24 | Efficient search of Petri Nets for deadlock-free scheduling in FMSs using heuristic functions. <i>International Journal of Computer Integrated Manufacturing</i> , 2003, 16, 14-24. | 2.9 | 20 |
| 25 | Improvement in the operating room efficiency using Tabu search in simulation. <i>Business Process Management Journal</i> , 2013, 19, 799-818. | 2.4 | 20 |
| 26 | Mixed fleet based green clustered logistics problem under carbon emission cap. <i>Sustainable Cities and Society</i> , 2021, 72, 103074. | 5.1 | 19 |
| 27 | Optimizing Multi-objective Dynamic Facility Location Decisions within Green Distribution Network Design. <i>Procedia CIRP</i> , 2014, 17, 675-679. | 1.0 | 18 |
| 28 | Deadlock-free scheduling of flexible job shops with limited capacity buffers. <i>European Journal of Industrial Engineering</i> , 2008, 2, 231. | 0.5 | 16 |
| 29 | Modeling, Simulation and Control of Flat Panel Solar Collectors with Thermal Storage for Heating and Cooling Applications. <i>Procedia Computer Science</i> , 2013, 19, 686-693. | 1.2 | 14 |
| 30 | Facility Location Decisions within Integrated Forward/Reverse Logistics under Uncertainty. <i>Procedia CIRP</i> , 2014, 17, 606-610. | 1.0 | 14 |
| 31 | Distributed permutation flowshop scheduling problem with total completion time objective. <i>Opsearch</i> , 2021, 58, 425-447. | 1.1 | 14 |
| 32 | Deadlock-free Rescheduling in Flexible Manufacturing Systems. <i>CIRP Annals - Manufacturing Technology</i> , 2002, 51, 371-374. | 1.7 | 13 |
| 33 | Studying the effect of different combinations of timetabling with sequencing algorithms to solve the no-wait job shop scheduling problem. <i>International Journal of Production Research</i> , 2013, 51, 4942-4965. | 4.9 | 13 |
| 34 | Mathematical formulations for scheduling in manufacturing cells with limited capacity buffers. <i>International Journal of Operational Research</i> , 2010, 7, 463. | 0.1 | 12 |
| 35 | Multi-objective optimisation of facility location decisions within integrated forward/reverse logistics under uncertainty. <i>International Journal of Business Performance and Supply Chain Modelling</i> , 2016, 8, 250. | 0.2 | 12 |
| 36 | A sorting based efficient heuristic for pooled repair shop designs. <i>Computers and Operations Research</i> , 2020, 117, 104887. | 2.4 | 11 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | A clustering-based repair shop design for repairable spare part supply systems. Computers and Industrial Engineering, 2018, 125, 232-244. | 3.4 | 10 |
| 38 | Optimization of design and operation of solar assisted district cooling systems. Energy Conversion and Management: X, 2020, 6, 100028. | 0.9 | 10 |
| 39 | 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 |
| 40 | 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 |
| 41 | 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 |
| 42 | Robust Metaheuristics for Scheduling Cellular Flowshop with Family Sequence-Dependent Setup Times. Procedia CIRP, 2014, 17, 428-433. | 1.0 | 8 |
| 43 | Data of the design of solar assisted district cooling systems. Data in Brief, 2020, 30, 105541. | 0.5 | 8 |
| 44 | System requirements and optimization of multi-chillers district cooling plants. Energy, 2022, 246, 123349. | 4.5 | 8 |
| 45 | 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 |
| 46 | Simulation based particle swarm optimization of cross-training policies in spare parts supply systems. , 2017, , . | | 7 |
| 47 | Integrated Optimization for Stock Levels and Cross-Training Schemes with Simulation-Based Genetic Algorithm. , 2016, , . | | 6 |
| 48 | Analysis of reactive deadlock-free scheduling in flexible job shops. Flexible Services and Manufacturing Journal, 2007, 19, 264-285. | 0.4 | 4 |
| 49 | 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 |
| 50 | Buffer size determination for drum-buffer-rope controlled supply chain networks. International Journal of Agile Systems and Management, 2012, 5, 151. | 0.6 | 3 |
| 51 | Distribution-service Network Design: An Agent-based Approach. Procedia CIRP, 2014, 17, 651-656. | 1.0 | 3 |
| 52 | A Heuristic Search Approach for Deadlock-Free Scheduling in FMSS Using Petri Nets and AI Techniques. , 1998, , . | | 3 |
| 53 | Economic Energy Allocation of Conventional and Large-Scale PV Power Plants. Applied Sciences (Switzerland), 2022, 12, 1362. | 1.3 | 3 |
| 54 | Solar Technology and District Cooling System in a Hot Climate Regions: Optimal Configuration and Technology Selection. Energies, 2022, 15, 2657. | 1.6 | 3 |

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|----|---|-----|-----------|
| 55 | Job shop deadlock-free scheduling using Mixed Integer Programming and rank matrices. , 2007, , . | | 2 |
| 56 | A Pooling Strategy for Flexible Repair Shop Designs. , 2018, , . | | 2 |
| 57 | Stochastic Optimization of Hybrid Renewable Energy Systems. , 2015, , . | | 1 |
| 58 | Stochastic Optimization of the Repair Shops Location Problem Using Particle Swarm Optimization Algorithm. , 2015, , . | | 0 |
| 59 | An Efficient Heuristic for Pooled Repair Shop Designs. Communications in Computer and Information Science, 2019, , 102-118. | 0.4 | 0 |
| 60 | Multi Agent Normal Sampling Technique (MANST) for Global Optimization. , 2007, , . | | 0 |
| 61 | Enhanced Multi-Agent Normal Sampling Technique for Global Optimization. , 2008, , . | | 0 |