Aiying Rong

List of Publications by Year
in descending order

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34 papers	2,586 citations	257101 24 h-index	395343 33 g-index
34 all docs	34 docs citations	34 times ranked	1991 citing authors

#	Article	IF	Citations
1	A Dynamic Regrouping Based Dynamic Programming Approach for Unit Commitment of the Transmission-Constrained Multi-Site Combined Heat and Power System. IEEE Transactions on Power Systems, 2018, 33, 714-722.	4.6	33
2	Polygeneration systems in buildings: A survey on optimization approaches. Energy and Buildings, 2017, 151, 439-454.	3.1	64
3	An efficient model and algorithm for the transmission-constrained multi-site combined heat and power system. European Journal of Operational Research, 2017, 258, 1106-1117.	3.5	18
4	Role of polygeneration in sustainable energy system development challenges and opportunities from optimization viewpoints. Renewable and Sustainable Energy Reviews, 2016, 53, 363-372.	8.2	96
5	A two phase approach for the bi-objective non-convex combined heat and power production planning problem. European Journal of Operational Research, 2015, 245, 296-308.	3.5	15
6	An efficient algorithm for bi-objective combined heat and power production planning under the emission trading scheme. Energy Conversion and Management, 2014, 88, 525-534.	4.4	16
7	Dynamic programming algorithms for the bi-objective integer knapsack problem. European Journal of Operational Research, 2014, 236, 85-99.	3.5	18
8	Multicriteria 0-1 knapsack problems with k-min objectives. Computers and Operations Research, 2013, 40, 1481-1496.	2.4	5
9	A reduction dynamic programming algorithm for the bi-objective integer knapsack problem. European Journal of Operational Research, 2013, 231, 299-313.	3.5	13
10	Computational performance of basic state reduction based dynamic programming algorithms for bi-objective 0â€“1 knapsack problems. Computers and Mathematics With Applications, 2012, 63, 1462-1480.	1.4	8
11	Dynamic programming based algorithms for the discounted {0â€“1} knapsack problem. Applied Mathematics and Computation, 2012, 218, 6921-6933.	1.4	37
12	A two state reduction based dynamic programming algorithm for the bi-objective 0â€“1 knapsack problem. Computers and Mathematics With Applications, 2011, 62, 2913-2930.	1.4	13
13	Modeling the machine configuration and line-balancing problem of a PCB assembly line with modular placement machines. International Journal of Advanced Manufacturing Technology, 2011, 54, 349-360.	1.5	15
14	An optimization approach for managing fresh food quality throughout the supply chain. International Journal of Production Economics, 2011, 131, 421-429.	5.1	487
15	A methodology for controlling dispersion in food production and distribution. OR Spectrum, 2010, 32, 957-978.	2.1	45
16	Monthly tour scheduling models with mixed skills considering weekend off requirements. Computers and Industrial Engineering, 2010, 59, 334-343.	3.4	29
17	A dynamic regrouping based sequential dynamic programming algorithm for unit commitment of combined heat and power systems. Energy Conversion and Management, 2009, 50, 1108-1115.	4.4	75
18	An improved unit decommitment algorithm for combined heat and power systems. European Journal of Operational Research, 2009, 195, 552-562.	3.5	29

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19	Shift designs for freight handling personnel at air cargo terminals. Transportation Research, Part E: Logistics and Transportation Review, 2009, 45, 725-739.	3.7	24
20	Modeling a PCB assembly line with modular reconfigurable placement machines. , 2009, , .		2
21	Lagrangian relaxation based algorithm for trigeneration planning with storages. European Journal of Operational Research, 2008, 188, 240-257.	3.5	64
22	Fuzzy chance constrained linear programming model for optimizing the scrap charge in steel production. European Journal of Operational Research, 2008, 186, 953-964.	3.5	95
23	A variant of the dynamic programming algorithm for unit commitment of combined heat and power systems. European Journal of Operational Research, 2008, 190, 741-755.	3.5	46
24	An effective heuristic for combined heat-and-power production planning with power ramp constraints. Applied Energy, 2007, 84, 307-325.	5.1	45
25	CO2 emissions trading planning in combined heat and power production via multi-period stochastic optimization. European Journal of Operational Research, 2007, 176, 1874-1895.	3.5	71
26	Efficient algorithms for combined heat and power production planning under the deregulated electricity market. European Journal of Operational Research, 2007, 176, 1219-1245.	3.5	64
27	An efficient envelope-based Branch and Bound algorithm for non-convex combined heat and power production planning. European Journal of Operational Research, 2007, 183, 412-431.	3.5	90
28	An efficient linear model and optimisation algorithm for multi-site combined heat and power production. European Journal of Operational Research, 2006, 168, 612-632.	3.5	54
29	An efficient linear programming model and optimization algorithm for trigeneration. Applied Energy, 2005, 82, 40-63.	5.1	141
30	Modelling and a genetic algorithm solution for the slab stack shuffling problem when implementing steel rolling schedules. International Journal of Production Research, 2002, 40, 1583-1595.	4.9	70
31	A review of planning and scheduling systems and methods for integrated steel production. European Journal of Operational Research, 2001, 133, 1-20.	3.5	303
32	An effective heuristic algorithm to minimise stack shuffles in selecting steel slabs from the slab yard for heating and rolling. Journal of the Operational Research Society, 2001, 52, 1091-1097.	2.1	31
33	A multiple traveling salesman problem model for hot rolling scheduling in Shanghai Baoshan Iron & Steel Complex. European Journal of Operational Research, 2000, 124, 267-282.	3.5	275
34	A mathematical programming model for scheduling steelmaking-continuous casting production. European Journal of Operational Research, 2000, 120, 423-435.	3.5	195