Sarah M Ryan

List of Publications by Year
in descending order

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81	2,609	218381	205818
papers	citations	26 h-index	48 g-index

84	84	84	2344
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hybrid robust and stochastic optimization for closed-loop supply chain network design using accelerated Benders decomposition. European Journal of Operational Research, 2016, 249, 76-92.	3.5	208
2	A Multiperiod Generalized Network Flow Model of the U.S. Integrated Energy System: Part Iâ€"Model Description. IEEE Transactions on Power Systems, 2007, 22, 829-836.	4.6	199
3	Optimal Price and Quantity of Refurbished Products. Production and Operations Management, 2006, 15, 369-383.	2.1	156
4	Closed-loop supply chain network design with multiple transportation modes under stochastic demand and uncertain carbon tax. International Journal of Production Economics, 2018, 195, 118-131.	5.1	145
5	Obtaining lower bounds from the progressive hedging algorithm for stochastic mixed-integer programs. Mathematical Programming, 2016, 157, 47-67.	1.6	126
6	Optimizing Service Restoration in Distribution Systems With Uncertain Repair Time and Demand. IEEE Transactions on Power Systems, 2018, 33, 6828-6838.	4.6	124
7	Scenario construction and reduction applied to stochastic power generation expansion planning. Computers and Operations Research, 2013, 40, 9-23.	2.4	117
8	On The Validity of The Geometric Brownian Motion Assumption. Engineering Economist, 2005, 50, 159-192.	0.3	97
9	Modeling and solving a large-scale generation expansion planning problem under uncertainty. Energy Systems, 2011, 2, 209-242.	1.8	90
10	A Tri-Level Model of Centralized Transmission and Decentralized Generation Expansion Planning for an Electricity Marketâ€"Part I. IEEE Transactions on Power Systems, 2014, 29, 132-141.	4.6	79
11	A Markov decision model to evaluate outsourcing in reverse logistics. International Journal of Production Research, 2007, 45, 4289-4315.	4.9	76
12	Toward scalable, parallel progressive hedging for stochastic unit commitment. , 2013, , .		64
13	Temporal Versus Stochastic Granularity in Thermal Generation Capacity Planning With Wind Power. IEEE Transactions on Power Systems, 2014, 29, 2033-2041.	4.6	61
14	Capacity Expansion for Random Exponential Demand Growth with Lead Times. Management Science, 2004, 50, 740-748.	2.4	55
15	Toward scalable stochastic unit commitment. Energy Systems, 2015, 6, 417-438.	1.8	50
16	Impact of Demand Response on Thermal Generation Investment With High Wind Penetration. IEEE Transactions on Smart Grid, 2013, 4, 2374-2383.	6.2	45
17	Solution sensitivity-based scenario reduction for stochastic unit commitment. Computational Management Science, 2016, 13, 29-62.	0.8	44
18	Allocating work in process in a multiple-product CONWIP system with lost sales. International Journal of Production Research, 2005, 43, 223-246.	4.9	42

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19	Robust design of a closed-loop supply chain network for uncertain carbon regulations and random product flows. EURO Journal on Transportation and Logistics, 2014, 3, 5-34.	1.3	42
20	Child Life Reduces Distress and Pain and Improves Family Satisfaction in the Pediatric Emergency Department. Clinical Pediatrics, 2018, 57, 1567-1575.	0.4	40
21	A Tri-Level Model of Centralized Transmission and Decentralized Generation Expansion Planning for an Electricity Marketâ€"Part II. IEEE Transactions on Power Systems, 2014, 29, 142-148.	4.6	38
22	Value of condition monitoring for optimal replacement in the proportional hazards model with continuous degradation. IIE Transactions, 2010, 42, 553-563.	2.1	36
23	Integration of progressive hedging and dual decomposition in stochastic integer programs. Operations Research Letters, 2015, 43, 311-316.	0.5	36
24	Determining inventory levels in a CONWIP controlled job shop. IIE Transactions, 2000, 32, 105-114.	2.1	35
25	Capacity Expansion in the Integrated Supply Network for an Electricity Market. IEEE Transactions on Power Systems, 2011, 26, 2275-2284.	4.6	34
26	Optimal Replacement in the Proportional Hazards Model With Semi-Markovian Covariate Process and Continuous Monitoring. IEEE Transactions on Reliability, 2011, 60, 580-589.	3.5	33
27	Toward scalable stochastic unit commitment. Part 1: load scenario generation. Energy Systems, 2015, 6, 309-329.	1.8	31
28	Effect of frequency and duration of generating unit outages on distribution of system production costs. IEEE Transactions on Power Systems, 1990, 5, 191-197.	4.6	27
29	Stochastic vs. deterministic scheduling of a combined natural gas and power system with uncertain wind energy. International Journal of Electrical Power and Energy Systems, 2019, 108, 303-313.	3.3	26
30	Total WIP and WIP mix for a CONWIP controlled job shop. IIE Transactions, 2003, 35, 405-418.	2.1	25
31	Day-ahead hourly electricity load modeling by functional regression. Applied Energy, 2016, 170, 455-465.	5.1	24
32	A longitudinal intervention to improve young childrenâ€™s liking and consumption of new foods: findings from the Colorado LEAP study. International Journal of Behavioral Nutrition and Physical Activity, 2019, 16, 49.	2.0	24
33	Robust optimization vs. stochastic programming incorporating risk measures for unit commitment with uncertain variable renewable generation. Energy Systems, 2019, 10, 517-541.	1.8	23
34	Seeking emergency contraception in the United States: A review of access and barriers. Women and Health, 2019, 59, 364-374.	0.4	22
35	Radiomic measures from chest high-resolution computed tomography associated with lung function in sarcoidosis. European Respiratory Journal, 2019, 54, 1900371.	3.1	22
36	Statistical metrics for assessing the quality of wind power scenarios for stochastic unit commitment. Wind Energy, 2016, 19, 873-893.	1.9	21

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37	Capacity expansion with lead times and autocorrelated random demand. Naval Research Logistics, 2003, 50, 167-183.	1.4	16
38	THE ENGINEERING LEARNING PORTAL FOR PROBLEM SOLVING: EXPERIENCE IN A LARGE ENGINEERING ECONOMY CLASS. Engineering Economist, 2004, 49, 1-19.	0.3	16
39	Capacity expansion under a serviceâ€level constraint for uncertain demand with lead times. Naval Research Logistics, 2009, 56, 250-263.	1.4	16
40	Operations research methods applied to workflow in a medical records department. Health Care Management Science, 2002, 5, 191-199.	1.5	14
41	Risk-based Unit Commitment. IEEE Power Engineering Society General Meeting, 2007, , .	0.0	14
42	Understanding student pathways in context-rich problems. Education and Information Technologies, 2011, 16, 323-342.	3.5	14
43	Welfare Effects of Expansions in Equilibrium Models of an Electricity Market With Fuel Network. IEEE Transactions on Power Systems, 2010, 25, 1337-1349.	4.6	12
44	Scenario reduction for stochastic unit commitment with wind penetration. , 2014, , .		12
45	Land use optimization for nutrient reduction under stochastic precipitation rates. Environmental Modelling and Software, 2020, 123, 104527.	1.9	12
46	Degeneracy in infinite horizon optimization. Mathematical Programming, 1989, 43, 305-316.	1.6	11
47	Estimation of Multiple Sclerosis lesion age on magnetic resonance imaging. NeuroImage, 2021, 225, 117451.	2.1	11
48	Statistical reliability of wind power scenarios and stochastic unit commitment cost. Energy Systems, 2018, 9, 873-898.	1.8	10
49	Decreased placental folate transporter expression and activity in first and second trimester in obese mothers. Journal of Nutritional Biochemistry, 2020, 77, 108305.	1.9	9
50	Joint Optimization of Asset and Inventory Management in a Productâ€“Service System. Engineering Economist, 2014, 59, 91-115.	0.3	8
51	Reducing Anesthesia Use for Pediatric Magnetic Resonance Imaging: The Effects of a Patient- and Family-Centered Intervention on Image Quality, Health-care Costs, and Operational Efficiency. Journal of Radiology Nursing, 2019, 38, 21-27.	0.2	8
52	Forecast frequency in rolling horizon hedging heuristics for capacity expansion. European Journal of Operational Research, 1998, 109, 550-558.	3.5	7
53	Market outcomes in a congested electricity system with fuel supply network. , 2009, , .		7
54	Effects of uncertain fuel costs on fossil fuel and electric energy flows in the US. Energy Systems, 2010, 1, 209-243.	1.8	7

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55	A new approximation method for generating day-ahead load scenarios. , 2013, , .		7
56	Determining inventory levels in a CONWIP controlled job shop. IIE Transactions, 2000, 32, 105-114.	2.1	6
57	Correlation of Left Atrial Appendage Ejection Velocities with the <scp>CHADS</scp>2 and <scp>CHA</scp>2<scp>DS</scp>2â€<scp>VAS</scp>c Scores. Echocardiography, 2016, 33, 1195-1201.	0.3	5
58	Conditions under which adjustability lowers the cost of a robust linear program. Annals of Operations Research, 2018, 269, 185-204.	2.6	5
59	Template Creation for High-Resolution Computed Tomography Scans of the Lung in R Software. Academic Radiology, 2020, 27, e204-e215.	1.3	5
60	Integrated Decision Algorithms for Auto-steered Electric Transmission System Asset Management. Lecture Notes in Computer Science, 2007, , 1066-1073.	1.0	5
61	A renewal reward approximation for the variance of electric power production costs. IIE Transactions, 1997, 29, 435-440.	2.1	4
62	RELATIVE RISK CHARACTERISTICS OF ROLLING HORIZON HEDGING HEURISTICS FOR CAPACITY EXPANSION. Engineering Economist, 2000, 45, 115-128.	0.3	4
63	THE EFFECT OF TECHNOLOGICAL IMPROVEMENT ON CAPACITY EXPANSION FOR UNCERTAIN EXPONENTIAL DEMAND WITH LEAD TIMES. Engineering Economist, 2004, 49, 95-118.	0.3	4
64	Heavy Traffic Analysis of a Simple Closed-Loop Supply Chain. Stochastic Models, 2010, 26, 549-593.	0.3	4
65	A renewal reward approximation for the variance of electric power production costs. IIE Transactions, 1997, 29, 435-440.	2.1	3
66	Demand price sensitivity and market power in a congested fuel and electricity network. , 2010, , .		3
67	Quantifying the effect of natural gas price uncertainty on economic dispatch cost uncertainty. , 2017, , .		3
68	Observational data-based quality assessment of scenario generation for stochastic programs. Computational Management Science, 2019, 16, 521-540.	0.8	3
69	Sequencing mixed-model assembly lines with risk-averse stochastic mixed-integer programming. International Journal of Production Research, 2022, 60, 3774-3791.	4.9	3
70	Student Selection Of Information Relevant To Solving Ill Structured Engineering Economic Decision Problems. , 0, , .		3
71	Farm management optimization under uncertainty with impacts on water quality and economic risk. IISE Transactions, 2022, 54, 1143-1160.	1.6	3
72	Capacity expansion for a loss system with exponential demand growth. Computers and Operations Research, 2003, 30, 1525-1537.	2.4	2

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73	Closing the loop on product-based services with condition monitoring. , 2008, , .		2
74	Application of scenario reduction to LDC and risk based generation expansion planning. , 2012, , .		2
75	Aromatase Inhibition Ameliorates Decreased LH Output Found in Obese Women. Reproductive Sciences, 2020, 27, 1018-1023.	1.1	2
76	Reliability assessment of scenarios generated for stock index returns incorporating momentum. International Journal of Finance and Economics, 2021, 26, 4013-4031.	1.9	2
77	Portfolio rebalancing based on time series momentum and downside risk. IMA Journal of Management Mathematics, 2023, 34, 355-381.	1.1	1
78	Costs and Constraints of Transporting and Storing Primary Energy for Electricity Generation. Energy Systems, 2012, , 169-186.	0.5	0
79	Asymptotic Risk of Unit Commitment Schedule Due to Generating Unit Outages. , 2018, , .		0
80	Quantifying the effect of uncertainty in the gas spot price on power system dispatch costs with estimated correlated uncertainties. Energy Systems, 2020, 11, 859-884.	1.8	0
81	NRT-INFEWS: The DataFEWSion Traineeship Program for Innovations at the Nexus of Food Production, Renewable Energy, and Water Quality. , 0, , .		0