David L Woodruff

List of Publications by Year
in descending order

61 papers	3,950 citations	201674 27 h-index	197818 49 g-index
61 all docs	61 docs citations	61 times ranked	2735 citing authors

#	Article	IF	Citations
1	Parametric Stochastic Programming with One Chance Constraint: Gaining Insights from Response Space Analysis. Profiles in Operations Research, 2021, , 99-124.	0.4	0
2	Cell2Fire: A Cell-Based Forest Fire Growth Model to Support Strategic Landscape Management Planning. Frontiers in Forests and Global Change, 2021, 4, .	2.3	11
3	Mape_Maker: A Scenario Creator. Energy Systems, 2020, , 1.	3.0	0
4	Parmest: Parameter Estimation Via Pyomo. Computer Aided Chemical Engineering, 2019, , 41-46.	0.5	4
5	Constructing probabilistic scenarios for wide-area solar power generation. Solar Energy, 2018, 160, 153-167.	6.1	28
6	A stochastic programming approach to solve a coordinated capacitated stochastic dynamic demand lot-sizing problem with emergency supplies. International Journal of Logistics Systems and Management, 2018, 29, 173.	0.2	1
7	Stochastic Unit Commitment Performance Considering Monte Carlo Wind Power Scenarios. , 2018, , .		11
8	Software for Creating Stochastic Scenarios for Optimization from Data. Computer Aided Chemical Engineering, 2018, , 1531-1536.	0.5	0
9	BBPH: Using progressive hedging within branch and bound to solve multi-stage stochastic mixed integer programs. Operations Research Letters, 2017, 45, 34-39.	0.7	13
10	Stochastic Programming for Global Supply Chain Planning Under Uncertainty: An Outline. Lecture Notes in Computer Science, 2017, , 437-451.	1.3	1
11	Generating shortâ€term probabilistic wind power scenarios via nonparametric forecast error density estimators. Wind Energy, 2017, 20, 1911-1925.	4.2	37
12	Preface: logistics, optimization and transportationâ€"in memory of the late Arne LÃ¸kketangen. Annals of Operations Research, 2017, 253, 709-711.	4.1	3
13	Stochastic programming for flexible global supply chain planning. Flexible Services and Manufacturing Journal, 2017, 29, 601-633.	3.4	14
14	Obtaining lower bounds from the progressive hedging algorithm for stochastic mixed-integer programs. Mathematical Programming, 2016, 157, 47-67.	2.4	126
15	Stochastic optimization models in forest planning: a progressive hedging solution approach. Annals of Operations Research, 2015, 232, 259.	4.1	15
16	Generating Stochastic Ellipsoidal Forest and Wildland Fire Scar Scenarios for Strategic Forest Management Planning under Uncertainty. Forest Science, 2015, 61, 494-508.	1.0	1
17	Integration of progressive hedging and dual decomposition in stochastic integer programs. Operations Research Letters, 2015, 43, 311-316.	0.7	36
18	Chance and service level constraints for stochastic generation expansion planning. NETNOMICS: Economic Research and Electronic Networking, 2015, 16, 169-191.	0.9	1

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19	Toward scalable stochastic unit commitment. Energy Systems, 2015, 6, 417-438.	3.0	50
20	Multi-period forecasting and scenario generation with limited data. Computational Management Science, 2015, 12, 267-295.	1.3	28
21	Toward scalable stochastic unit commitment. Part 1: load scenario generation. Energy Systems, 2015, 6, 309-329.	3.0	31
22	Multi-stage scenario generation by the combined moment matching and scenario reduction method. Operations Research Letters, 2014, 42, 374-377.	0.7	23
23	Toward scalable, parallel progressive hedging for stochastic unit commitment. , 2013, , .		64
24	A new approximation method for generating day-ahead load scenarios. , 2013, , .		7
25	Pyomo â€“ Optimization Modeling in Python. Springer Optimization and Its Applications, 2012, , .	0.9	132
26	PySP: modeling and solving stochastic programs in Python. Mathematical Programming Computation, 2012, 4, 109-149.	4.8	89
27	A Progressive Hedging Approach for Parameter Estimation via Stochastic Nonlinear Programming. Computer Aided Chemical Engineering, 2012, 31, 1507-1511.	0.5	1
28	Discrete Lot-Sizing and Scheduling with Sequence-Dependent Setup Times and Costs Including Deterioration and Perishability Constraints. , 2011, , .		8
29	Progressive hedging innovations for a class of stochastic mixed-integer resource allocation problems. Computational Management Science, 2011, 8, 355-370.	1.3	214
30	Pyomo: modeling and solving mathematical programs in Python. Mathematical Programming Computation, 2011, 3, 219-260.	4.8	665
31	Modeling and solving a large-scale generation expansion planning problem under uncertainty. Energy Systems, 2011, 2, 209-242.	3.0	90
32	Scalable Heuristics for a Class of Chance-Constrained Stochastic Programs. INFORMS Journal on Computing, 2010, 22, 543-554.	1.7	16
33	How to select a small set of diverse solutions to mixed integer programming problems. Operations Research Letters, 2009, 37, 255-260.	0.7	21
34	Experiments concerning sequential versus simultaneous maximization of objective function and distance. Journal of Heuristics, 2008, 14, 613-625.	1.4	22
35	Production planning with load dependent lead times: an update of research. Annals of Operations Research, 2007, 153, 297-345.	4.1	75
36	Heuristic Search for 2D NMR Alignment to Support Metabolite Identification. Lecture Notes in Computer Science, 2007, , 447-458.	1.3	0

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37	Automated screening for metabolites in complex mixtures using 2D COSY NMR spectroscopy. Metabolomics, 2006, 2, 221-233.	3.0	48
38	A distance function to support optimized selection decisions. Decision Support Systems, 2005, 39, 345-354.	5.9	16
39	A decomposition algorithm applied to planning the interdiction of stochastic networks. Naval Research Logistics, 2005, 52, 321-328.	2.2	39
40	Production planning with load dependent lead times. 4or, 2005, 3, 257-302.	1.6	61
41	Heuristics for Multi-Stage Interdiction of Stochastic Networks. Journal of Heuristics, 2005, 11, 483-500.	1.4	42
42	Load Dependent Lead Times â€" From Empirical Evidence to Mathematical Modeling. , 2005, , 539-554.		5
43	Beam search for peak alignment of NMR signals. Analytica Chimica Acta, 2004, 513, 413-416.	5.4	78
44	Experiments with, and on, algorithms for maximum likelihood clustering. Computational Statistics and Data Analysis, 2004, 47, 237-253.	1.2	10
45	Interdicting Stochastic Networks with Binary Interdiction Effort. , 2003, , 69-84.		21
46	Progressive hedging as a meta-heuristic applied to stochastic lot-sizing. European Journal of Operational Research, 2001, 132, 116-122.	5.7	56
47	Cluster Analysis for Large Datasets: An Effective Algorithm for Maximizing the Mixture Likelihood. Journal of Computational and Graphical Statistics, 2000, 9, 672-688.	1.7	9
48	Cluster Analysis for Large Datasets: An Effective Algorithm for Maximizing the Mixture Likelihood. Journal of Computational and Graphical Statistics, 2000, 9, 672.	1.7	13
49	Selection of an optimal subset of sizes. International Journal of Production Research, 1999, 37, 3697-3710.	7.5	12
50	A class of stochastic programs withdecision dependent random elements. Annals of Operations Research, 1998, 82, 83-106.	4.1	113
51	Progressive hedging and tabu search applied to mixed integer (0,1) multistage stochastic programming. Journal of Heuristics, 1996, 2, 111.	1.4	119
52	Identification of Outliers in Multivariate Data. Journal of the American Statistical Association, 1996, 91, 1047-1061.	3.1	257
53	Identification of Outliers in Multivariate Data. Journal of the American Statistical Association, 1996, 91, 1047.	3.1	70
54	Ghost Image Processing for Minimum Covariance Determinants. ORSA Journal on Computing, 1995, 7, 468-473.	1.7	7

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55	Computable Robust Estimation of Multivariate Location and Shape in High Dimension Using Compound Estimators. Journal of the American Statistical Association, 1994, 89, 888-896.	3.1	105
56	Computable Robust Estimation of Multivariate Location and Shape in High Dimension Using Compound Estimators. Journal of the American Statistical Association, 1994, 89, 888.	3.1	43
57	Hashing vectors for tabu search. Annals of Operations Research, 1993, 41, 123-137.	4.1	98
58	Heuristic Search Algorithms for the Minimum Volume Ellipsoid. Journal of Computational and Graphical Statistics, 1993, 2, 69-95.	1.7	46
59	SEQUENCING AND BATCHING FOR TWO CLASSES OF JOBS WITH DEADLINES AND SETUP TIMES. Production and Operations Management, 1992, 1, 87-102.	3.8	41
60	CONWIP: a pull alternative to kanban. International Journal of Production Research, 1990, 28, 879-894.	7.5	797
61	Progressive Hedging Innovations for a Class of Stochastic Resource Allocation Problems. SSRN Electronic Journal, 0, , .	0.4	6