Alice E Smith

List of Publications by Year
in descending order

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100 papers	5,574 citations	201575 27 h-index	79644 73 g-index
115 all docs	115 docs citations	115 times ranked	4557 citing authors

#	Article	IF	Citations
1	Multi-objective optimization using genetic algorithms: A tutorial. Reliability Engineering and System Safety, 2006, 91, 992-1007.	5.1	2,489
2	Efficiently Solving the Redundancy Allocation Problem Using Tabu Search. IIE Transactions, 2003, 35, 515-526.	2.1	247
3	A genetic approach to the quadratic assignment problem. Computers and Operations Research, 1995, 22, 73-83.	2.4	239
4	Unequal-area facility layout by genetic search. IIE Transactions, 1995, 27, 465-472.	2.1	188
5	Penalty guided genetic search for reliability design optimization. Computers and Industrial Engineering, 1996, 30, 895-904.	3.4	177
6	COST ESTIMATION PREDICTIVE MODELING: REGRESSION VERSUS NEURAL NETWORK. Engineering Economist, 1997, 42, 137-161.	0.3	174
7	Adaptive Penalty Methods for Genetic Optimization of Constrained Combinatorial Problems. INFORMS Journal on Computing, 1996, 8, 173-182.	1.0	164
8	A Seeded Memetic Algorithm for Large Unit Commitment Problems. Journal of Heuristics, 2002, 8, 173-195.	1.1	133
9	Estimation of all-terminal network reliability using an artificial neural network. Computers and Operations Research, 2002, 29, 849-868.	2.4	108
10	Solving the redundancy allocation problem using a combined neural network/genetic algorithm approach. Computers and Operations Research, 1996, 23, 515-526.	2.4	97
11	A new mixed integer programming formulation for facility layout design using flexible bays. Operations Research Letters, 2006, 34, 660-672.	0.5	95
12	Solving the semi-desirable facility location problem using bi-objective particle swarm. European Journal of Operational Research, 2007, 177, 733-749.	3.5	73
13	Multi-objective tabu search using a multinomial probability mass function. European Journal of Operational Research, 2006, 169, 918-931.	3.5	67
14	A General Neural Network Model for Estimating Telecommunications Network Reliability. IEEE Transactions on Reliability, 2009, 58, 2-9.	3.5	60
15	Solving an Extended Double Row Layout Problem Using Multiobjective Tabu Search and Linear Programming. IEEE Transactions on Automation Science and Engineering, 2014, 11, 1122-1132.	3.4	58
16	Connectivity management in mobile ad hoc networks using particle swarm optimization. Ad Hoc Networks, 2011, 9, 1312-1326.	3.4	55
17	Economic design of reliable networks. IIE Transactions, 1998, 30, 1161-1174.	2.1	54
18	Exploiting Tabu Search Memory in Constrained Problems. INFORMS Journal on Computing, 2004, 16, 241-254.	1.0	49

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19	Genetic algorithm to maximize a lower-bound for system time-to-failure with uncertain component Weibull parameters. Computers and Industrial Engineering, 2002, 41, 423-440.	3.4	47
20	Optimal Design of Reliable Computer Networks: A Comparison of Metaheuristics. Journal of Heuristics, 2003, 9, 471-487.	1.1	44
21	Computing confidence intervals for stochastic simulation using neural network metamodels. Computers and Industrial Engineering, 1999, 36, 391-407.	3.4	42
22	Integrated facilities design using a contour distance metric. IIE Transactions, 2001, 33, 337-344.	2.1	38
23	Grain boundary detection in microstructure images using computational intelligence. Computers in Industry, 2005, 56, 854-866.	5.7	38
24	An efficient local search heuristic for the double row layout problem with asymmetric material flow. International Journal of Production Research, 2013, 51, 6129-6139.	4.9	36
25	A continuous approach to considering uncertainty in facility design. Computers and Operations Research, 2006, 33, 1760-1775.	2.4	33
26	The traveling salesman problem with release dates and drone resupply. Computers and Operations Research, 2021, 129, 105170.	2.4	33
27	A data-driven approach to grocery store block layout. Computers and Industrial Engineering, 2020, 139, 105562.	3.4	31
28	Evaluating Reliability/Survivability of Capacitated Wireless Networks. IEEE Transactions on Reliability, 2018, 67, 26-40.	3.5	28
29	A clonal selection algorithm for urban bus vehicle scheduling. Applied Soft Computing Journal, 2015, 36, 36-44.	4.1	26
30	Predicting product quality with backpropagation: A thermoplastic injection moulding case study. International Journal of Advanced Manufacturing Technology, 1993, 8, 252-257.	1.5	25
31	Sharing clearances to improve machine layout. International Journal of Production Research, 2016, 54, 4272-4285.	4.9	25
32	Bi-objective facility expansion and relayout considering monuments. IIE Transactions, 2007, 39, 747-761.	2.1	23
33	Women in engineering in Turkey â€“ a large scale quantitative and qualitative examination. European Journal of Engineering Education, 2010, 35, 45-57.	1.5	23
34	Retail space design considering revenue and adjacencies using a racetrack aisle network. IIE Transactions, 2012, 44, 446-458.	2.1	23
35	Prediction and optimization of a ceramic casting process using a hierarchical hybrid system of neural networks and fuzzy logic. IIE Transactions, 2000, 32, 83-91.	2.1	22
36	A memetic algorithm for channel assignment in wireless FDMA systems. Computers and Operations Research, 2007, 34, 1842-1856.	2.4	21

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37	AN ANT COLONY APPROACH TO THE ORIENTEERING PROBLEM. Journal of the Chinese Institute of Industrial Engineers, 2006, 23, 403-414.	0.5	20
38	Double-row facility layout with replicate machines and split flows. Computers and Operations Research, 2019, 108, 20-32.	2.4	20
39	A predictive model for slip resistance using artificial neural networks. IIE Transactions, 1995, 27, 374-381.	2.1	19
40	Practical guidelines for developing BP neural network models of measurement uncertainty data. Journal of Manufacturing Systems, 2006, 25, 239-250.	7.6	19
41	Controlling industrial processes through supervised, feedforward neural networks. Computers and Industrial Engineering, 1991, 21, 247-251.	3.4	18
42	Reducing waste in casting with a predictive neural model. Journal of Intelligent Manufacturing, 1994, 5, 277-286.	4.4	18
43	Economic design of reliable networks. IIE Transactions, 1998, 30, 1161-1174.	2.1	18
44	Capacitated network design considering survivability: an evolutionary approach. Engineering Optimization, 2004, 36, 189-205.	1.5	18
45	The vehicle loading problem with a heterogeneous transport fleet. Computers and Industrial Engineering, 2016, 97, 137-145.	3.4	17
46	An improved model for the parallel row ordering problem. Journal of the Operational Research Society, 2020, 71, 475-490.	2.1	17
47	Network Reliability Optimization. , 2006, , 735-760.		14
48	A tabu search algorithm to solve a green logistics bi-objective bi-level problem. Annals of Operations Research, 2022, 316, 927-953.	2.6	13
49	Designing resilient networks using a hybrid genetic algorithm approach. , 2005, , .		12
50	Two-stage data mining for flaw identification in ceramics manufacture. International Journal of Production Research, 2006, 44, 2839-2851.	4.9	12
51	NEURAL NETWORK OPEN LOOP CONTROL SYSTEM FOR WAVE SOLDERING. Journal of Electronics Manufacturing, 2002, 11, 95-105.	0.4	11
52	Determining aisle structures for facility designs using a hierarchy of algorithms. IIE Transactions, 2008, 40, 1019-1031.	2.1	11
53	Neural Network Models to Anticipate Failures of Airport Ground Transportation Vehicle Doors. IEEE Transactions on Automation Science and Engineering, 2010, 7, 183-188.	3.4	11
54	An integer programming approach for fuzzy rule-based classification systems. European Journal of Operational Research, 2017, 256, 924-934.	3.5	11

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55	Relating product specifications and performance data with a neural network model for design improvement. Journal of Intelligent Manufacturing, 1993, 4, 367-374.	4.4	10
56	Estimation of shrinkage for near net-shape using a neural network approach. Journal of Intelligent Manufacturing, 2003, 14, 219-228.	4.4	10
57	A bi-objective model for the retail spatial design problem. Engineering Optimization, 2012, 44, 243-266.	1.5	10
58	A model-driven engineering approach to simulation experiment design and execution. , 2015, , .		10
59	Locating multiple capacitated semi-obnoxious facilities using evolutionary strategies. Computers and Industrial Engineering, 2019, 133, 303-316.	3.4	10
60	Incorporating heterogeneous distance metrics within block layout design. International Journal of Production Research, 2003, 41, 1045-1056.	4.9	9
61	Multi-commodity k-splittable survivable network design problems with relays. Telecommunication Systems, 2016, 62, 123-133.	1.6	9
62	Efficient Optimization of Reliable Two-Node Connected Networks: A Biobjective Approach. INFORMS Journal on Computing, 2011, 23, 430-445.	1.0	7
63	A novel approach for modeling order picking paths. Naval Research Logistics, 2021, 68, 471-484.	1.4	7
64	Relocations in container depots for different handling equipment types: Markov models. Computers and Industrial Engineering, 2021, 157, 107311.	3.4	7
65	Estimation of a mass transfer coefficient for nylon manufacture using multiple neural networks. Journal of Manufacturing Systems, 2001, 20, 349-356.	7.6	6
66	A technical note on the paper â€œhGA: Hybrid genetic algorithm in fuzzy rule-based classification systems for high-dimensional problemsâ€• Applied Soft Computing Journal, 2016, 41, 91-93.	4.1	6
67	Block layout for attraction-based enterprises. European Journal of Operational Research, 2018, 266, 1100-1112.	3.5	6
68	Two-Edge Disjoint Survivable Network Design Problem with Relays. , 2009, , 279-292.		6
69	Evolutionary Design of Facilities Considering Production Uncertainty. , 2000, , 175-186.		6
70	Title is missing!. IIE Transactions, 2000, 32, 83-91.	2.1	5
71	Dual Kriging: An Exploratory Use in Economic Metamodeling. Engineering Economist, 2005, 50, 247-271.	0.3	5
72	Optimizing tactical military MANETs with a specialized PSO. , 2010, , .		5

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73	Empty container stacking operations: Case study of an Empty Container Depot in Valparaiso Chile. , 2016, , .		5
74	The Double-Bay Layout Problem. IEEE Transactions on Semiconductor Manufacturing, 2016, 29, 446-454.	1.4	5
75	An intelligent composite system for statistical process control. Engineering Applications of Artificial Intelligence, 1992, 5, 519-526.	4.3	4
76	Integrated facility design using an evolutionary approach with a subordinate network algorithm. Lecture Notes in Computer Science, 1998, , 937-946.	1.0	4
77	The application of automated image analysis to dense heterogeneities in partially sintered alumina. Journal of the European Ceramic Society, 2007, 27, 1927-1933.	2.8	4
78	Bandwidth allocation with a particle swarm meta-heuristic for ethernet passive optical networks. Computer Communications, 2010, 33, 526-531.	3.1	4
79	Improving Network Connectivity in Ad Hoc Networks Using Particle Swarm Optimization and Agents. Profiles in Operations Research, 2011, , 247-267.	0.3	4
80	Minimizing late deliveries in a truck loading problem. European Journal of Operational Research, 2020, 286, 919-928.	3.5	4
81	A simulation methodology for online process control of hot mix asphalt (HMA) production. , 2010, , .		3
82	A setup reduction methodology from lean manufacturing for development of meta-heuristic algorithms. , 2013, , .		3
83	Improving Hot Mix Asphalt Production Using Computer Simulation and Real Time Optimization. Journal of Computing in Civil Engineering, 2014, 28, 04014011.	2.5	3
84	Acceptability of Artificial Intelligence in Poultry Processing and Classification Efficiencies of Different Classification Models in the Categorisation of Breast Fillet Myopathies. Frontiers in Physiology, 2021, 12, 712649.	1.3	3
85	Dynamic Load Balancing Using an Ant Colony Approach in Micro-cellular Mobile Communications Systems. , 2007, , 137-152.		3
86	Evolutionary Methods for the Design of Reliable Networks. , 2001, , 17-34.		2
87	Integrated facilities design using a contour distance metric. IIE Transactions, 2001, 33, 337-344.	2.1	2
88	The effect of powder forming method on the pull-out flaw populations observed on polished surfaces of alumina ceramics. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 427, 160-166.	2.6	1
89	Evolving an adaptive optimization course [Application Notes]. IEEE Computational Intelligence Magazine, 2009, 4, 52-54.	3.4	1
90	Airfoil optimization by Evolution Strategies. , 2013, , .		1

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91	Empty container stacking operations: Case study of an empty container depot in valparaiso chile. , 2017, , .		1
92	Models as self-aware cognitive agents and adaptive mediators for model-driven science. , 2017, , .		1
93	A Genetic Algorithm with Fuzzy Logic Controller for Design of Communication Networks. IEEJ Transactions on Electronics, Information and Systems, 2004, 124, 1979-1985.	0.1	1
94	Design of empty container depot layouts using data and analytics. Flexible Services and Manufacturing Journal, 0, , .	1.9	1
95	Design of Production Facilities Using Evolutionary Computing. , 2003, , 309-327.		0
96	Disservice representation using the Gini coefficient in semi-desirable facility location problems. , 2011, , .		0
97	Iterative mixed integer programming model for fuzzy rule-based classification systems. , 2014, , .		0
98	Model alignment using optimization and design of experiments. , 2017, , .		0
99	Supporting Simulation Experiments with Megamodeling. , 2018, , .		0
100	Efficient Risk Estimation Using Extreme Value Theory and Simulation Metamodeling. , 2020, , .		0