

Alice E Smith

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

93
papers

4,295
citations

25
h-index

65
g-index

115
ext. papers

4,890
ext. citations

4.6
avg, IF

5.63
L-index

#	Paper	IF	Citations
93	Multi-objective optimization using genetic algorithms: A tutorial. <i>Reliability Engineering and System Safety</i> , 2006 , 91, 992-1007	6.3	1918
92	Efficiently Solving the Redundancy Allocation Problem Using Tabu Search. <i>IIE Transactions</i> , 2003 , 35, 515-526		200
91	A genetic approach to the quadratic assignment problem. <i>Computers and Operations Research</i> , 1995 , 22, 73-83	4.6	182
90	Unequal-area facility layout by genetic search. <i>IIE Transactions</i> , 1995 , 27, 465-472		161
89	Penalty guided genetic search for reliability design optimization. <i>Computers and Industrial Engineering</i> , 1996 , 30, 895-904	6.4	143
88	COST ESTIMATION PREDICTIVE MODELING: REGRESSION VERSUS NEURAL NETWORK. <i>Engineering Economist</i> , 1997 , 42, 137-161	0.8	142
87	Adaptive Penalty Methods for Genetic Optimization of Constrained Combinatorial Problems. <i>INFORMS Journal on Computing</i> , 1996 , 8, 173-182	2.4	134
86	A Seeded Memetic Algorithm for Large Unit Commitment Problems. <i>Journal of Heuristics</i> , 2002 , 8, 173-195		108
85	Solving the redundancy allocation problem using a combined neural network/genetic algorithm approach. <i>Computers and Operations Research</i> , 1996 , 23, 515-526	4.6	87
84	Estimation of all-terminal network reliability using an artificial neural network. <i>Computers and Operations Research</i> , 2002 , 29, 849-868	4.6	80
83	A new mixed integer programming formulation for facility layout design using flexible bays. <i>Operations Research Letters</i> , 2006 , 34, 660-672	1	78
82	Solving the semi-desirable facility location problem using bi-objective particle swarm. <i>European Journal of Operational Research</i> , 2007 , 177, 733-749	5.6	63
81	Multi-objective tabu search using a multinomial probability mass function. <i>European Journal of Operational Research</i> , 2006 , 169, 918-931	5.6	55
80	Connectivity management in mobile ad hoc networks using particle swarm optimization. <i>Ad Hoc Networks</i> , 2011 , 9, 1312-1326	4.8	46
79	Exploiting Tabu Search Memory in Constrained Problems. <i>INFORMS Journal on Computing</i> , 2004 , 16, 241-254		45
78	Economic design of reliable networks. <i>IIE Transactions</i> , 1998 , 30, 1161-1174		44
77	Solving an Extended Double Row Layout Problem Using Multiobjective Tabu Search and Linear Programming. <i>IEEE Transactions on Automation Science and Engineering</i> , 2014 , 11, 1122-1132	4.9	43

76	A General Neural Network Model for Estimating Telecommunications Network Reliability. <i>IEEE Transactions on Reliability</i> , 2009 , 58, 2-9	4.6	42
75	Genetic algorithm to maximize a lower-bound for system time-to-failure with uncertain component Weibull parameters. <i>Computers and Industrial Engineering</i> , 2002 , 41, 423-440	6.4	37
74	Integrated facilities design using a contour distance metric. <i>IIE Transactions</i> , 2001 , 33, 337-344		34
73	Optimal Design of Reliable Computer Networks: A Comparison of Metaheuristics. <i>Journal of Heuristics</i> , 2003 , 9, 471-487	1.9	32
72	A continuous approach to considering uncertainty in facility design. <i>Computers and Operations Research</i> , 2006 , 33, 1760-1775	4.6	31
71	Computing confidence intervals for stochastic simulation using neural network metamodels. <i>Computers and Industrial Engineering</i> , 1999 , 36, 391-407	6.4	30
70	An efficient local search heuristic for the double row layout problem with asymmetric material flow. <i>International Journal of Production Research</i> , 2013 , 51, 6129-6139	7.8	29
69	Grain boundary detection in microstructure images using computational intelligence. <i>Computers in Industry</i> , 2005 , 56, 854-866	11.6	29
68	Bi-objective facility expansion and relay layout considering monuments. <i>IIE Transactions</i> , 2007 , 39, 747-761		21
67	Sharing clearances to improve machine layout. <i>International Journal of Production Research</i> , 2016 , 54, 4272-4285	7.8	19
66	A memetic algorithm for channel assignment in wireless FDMA systems. <i>Computers and Operations Research</i> , 2007 , 34, 1842-1856	4.6	18
65	Evaluating Reliability/Survivability of Capacitated Wireless Networks. <i>IEEE Transactions on Reliability</i> , 2018 , 67, 26-40	4.6	17
64	Retail space design considering revenue and adjacencies using a racetrack aisle network. <i>IIE Transactions</i> , 2012 , 44, 446-458		17
63	AN ANT COLONY APPROACH TO THE ORIENTEERING PROBLEM. <i>Journal of the Chinese Institute of Industrial Engineers</i> , 2006 , 23, 403-414		17
62	Controlling industrial processes through supervised, feedforward neural networks. <i>Computers and Industrial Engineering</i> , 1991 , 21, 247-251	6.4	17
61	Predicting product quality with backpropagation: A thermoplastic injection moulding case study. <i>International Journal of Advanced Manufacturing Technology</i> , 1993 , 8, 252-257	3.2	17
60	A clonal selection algorithm for urban bus vehicle scheduling. <i>Applied Soft Computing Journal</i> , 2015 , 36, 36-44	7.5	16
59	A predictive model for slip resistance using artificial neural networks. <i>IIE Transactions</i> , 1995 , 27, 374-381		16

58	Women in engineering in Turkey \square a large scale quantitative and qualitative examination. <i>European Journal of Engineering Education</i> , 2010 , 35, 45-57	1.5	15
57	Capacitated network design considering survivability: an evolutionary approach. <i>Engineering Optimization</i> , 2004 , 36, 189-205	2	15
56	Double-row facility layout with replicate machines and split flows. <i>Computers and Operations Research</i> , 2019 , 108, 20-32	4.6	14
55	Prediction and optimization of a ceramic casting process using a hierarchical hybrid system of neural networks and fuzzy logic. <i>IIE Transactions</i> , 2000 , 32, 83-91		14
54	The traveling salesman problem with release dates and drone resupply. <i>Computers and Operations Research</i> , 2021 , 129, 105170	4.6	13
53	Practical guidelines for developing BP neural network models of measurement uncertainty data. <i>Journal of Manufacturing Systems</i> , 2006 , 25, 239-250	9.1	12
52	Reducing waste in casting with a predictive neural model. <i>Journal of Intelligent Manufacturing</i> , 1994 , 5, 277-286	6.7	12
51	Network Reliability Optimization 2006 , 735-760		11
50	Two-stage data mining for flaw identification in ceramics manufacture. <i>International Journal of Production Research</i> , 2006 , 44, 2839-2851	7.8	11
49	A data-driven approach to grocery store block layout. <i>Computers and Industrial Engineering</i> , 2020 , 139, 105562	6.4	10
48	An improved model for the parallel row ordering problem. <i>Journal of the Operational Research Society</i> , 2020 , 71, 475-490	2	10
47	Determining aisle structures for facility designs using a hierarchy of algorithms. <i>IIE Transactions</i> , 2008 , 40, 1019-1031		9
46	The vehicle loading problem with a heterogeneous transport fleet. <i>Computers and Industrial Engineering</i> , 2016 , 97, 137-145	6.4	9
45	Neural Network Models to Anticipate Failures of Airport Ground Transportation Vehicle Doors. <i>IEEE Transactions on Automation Science and Engineering</i> , 2010 , 7, 183-188	4.9	8
44	Incorporating heterogeneous distance metrics within block layout design. <i>International Journal of Production Research</i> , 2003 , 41, 1045-1056	7.8	8
43	Locating multiple capacitated semi-obnoxious facilities using evolutionary strategies. <i>Computers and Industrial Engineering</i> , 2019 , 133, 303-316	6.4	7
42	A model-driven engineering approach to simulation experiment design and execution 2015 ,		7
41	A bi-objective model for the retail spatial design problem. <i>Engineering Optimization</i> , 2012 , 44, 243-266	2	7

40	Estimation of shrinkage for near net-shape using a neural network approach. <i>Journal of Intelligent Manufacturing</i> , 2003 , 14, 219-228	6.7	7
39	Designing resilient networks using a hybrid genetic algorithm approach 2005 ,		7
38	Relating product specifications and performance data with a neural network model for design improvement. <i>Journal of Intelligent Manufacturing</i> , 1993 , 4, 367-374	6.7	7
37	NEURAL NETWORK OPEN LOOP CONTROL SYSTEM FOR WAVE SOLDERING. <i>Journal of Electronics Manufacturing</i> , 2002 , 11, 95-105		6
36	Evolutionary Design of Facilities Considering Production Uncertainty 2000 , 175-186		6
35	An integer programming approach for fuzzy rule-based classification systems. <i>European Journal of Operational Research</i> , 2017 , 256, 924-934	5.6	5
34	A technical note on the paper BGA: Hybrid genetic algorithm in fuzzy rule-based classification systems for high-dimensional problems <i>Applied Soft Computing Journal</i> , 2016 , 41, 91-93	7.5	5
33	Efficient Optimization of Reliable Two-Node Connected Networks: A Biobjective Approach. <i>INFORMS Journal on Computing</i> , 2011 , 23, 430-445	2.4	5
32	Estimation of a mass transfer coefficient for nylon manufacture using multiple neural networks. <i>Journal of Manufacturing Systems</i> , 2001 , 20, 349-356	9.1	5
31	Prediction and optimization of a ceramic casting process using a hierarchical hybrid system of neural networks and fuzzy logic. <i>IIE Transactions</i> , 2000 , 32, 83-91		5
30	Block layout for attraction-based enterprises. <i>European Journal of Operational Research</i> , 2018 , 266, 1100-1112	5.11	5
29	Two-Edge Disjoint Survivable Network Design Problem with Relays 2009 , 279-292		5
28	Optimizing tactical military MANETs with a specialized PSO 2010 ,		4
27	The application of automated image analysis to dense heterogeneities in partially sintered alumina. <i>Journal of the European Ceramic Society</i> , 2007 , 27, 1927-1933	6	4
26	Dual Kriging: An Exploratory Use in Economic Metamodeling. <i>Engineering Economist</i> , 2005 , 50, 247-271	0.8	4
25	Integrated facility design using an evolutionary approach with a subordinate network algorithm. <i>Lecture Notes in Computer Science</i> , 1998 , 937-946	0.9	4
24	Empty container stacking operations: Case study of an Empty Container Depot in Valparaiso Chile 2016 ,		4
23	The Double-Bay Layout Problem. <i>IEEE Transactions on Semiconductor Manufacturing</i> , 2016 , 29, 446-454	2.6	4

22	Multi-commodity k-splittable survivable network design problems with relays. <i>Telecommunication Systems</i> , 2016 , 62, 123-133	2.3	3
21	A setup reduction methodology from lean manufacturing for development of meta-heuristic algorithms 2013 ,		3
20	Improving Network Connectivity in Ad Hoc Networks Using Particle Swarm Optimization and Agents. <i>Profiles in Operations Research</i> , 2011 , 247-267	1	3
19	A simulation methodology for online process control of hot mix asphalt (HMA) production 2010 ,		3
18	Bandwidth allocation with a particle swarm meta-heuristic for ethernet passive optical networks. <i>Computer Communications</i> , 2010 , 33, 526-531	5.1	3
17	Dynamic Load Balancing Using an Ant Colony Approach in Micro-cellular Mobile Communications Systems 2007 , 137-152		3
16	A tabu search algorithm to solve a green logistics bi-objective bi-level problem. <i>Annals of Operations Research</i> ,1	3.2	3
15	Improving Hot Mix Asphalt Production Using Computer Simulation and Real Time Optimization. <i>Journal of Computing in Civil Engineering</i> , 2014 , 28, 04014011	5	2
14	Integrated facilities design using a contour distance metric. <i>IIE Transactions</i> , 2001 , 33, 337-344		2
13	Evolutionary Methods for the Design of Reliable Networks 2001 , 17-34		2
12	An intelligent composite system for statistical process control. <i>Engineering Applications of Artificial Intelligence</i> , 1992 , 5, 519-526	7.2	2
11	Empty container stacking operations: Case study of an empty container depot in valparaiso chile 2017 ,		1
10	Models as self-aware cognitive agents and adaptive mediators for model-driven science 2017 ,		1
9	Economic design of reliable networks. <i>IIE Transactions</i> , 1998 , 30, 1161-1174		1
8	The effect of powder forming method on the pull-out flaw populations observed on polished surfaces of alumina ceramics. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 427, 160-166	5.3	1
7	A Genetic Algorithm with Fuzzy Logic Controller for Design of Communication Networks. <i>IEEJ Transactions on Electronics, Information and Systems</i> , 2004 , 124, 1979-1985	0.1	1
6	Relocations in container depots for different handling equipment types: Markov models. <i>Computers and Industrial Engineering</i> , 2021 , 157, 107311	6.4	1
5	A novel approach for modeling order picking paths. <i>Naval Research Logistics</i> , 2021 , 68, 471-484	1.5	1

4	Evolving an adaptive optimization course [Application Notes]. <i>IEEE Computational Intelligence Magazine</i> , 2009 , 4, 52-54	5.6	o
3	Minimizing late deliveries in a truck loading problem. <i>European Journal of Operational Research</i> , 2020 , 286, 919-928	5.6	o
2	Acceptability of Artificial Intelligence in Poultry Processing and Classification Efficiencies of Different Classification Models in the Categorisation of Breast Fillet Myopathies. <i>Frontiers in Physiology</i> , 2021 , 12, 712649	4.6	o
1	Design of Production Facilities Using Evolutionary Computing 2003 , 309-327		