

J Macgregor Smith

List of Publications by Year in descending order

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67
papers

1,748
citations

279798

23
h-index

289244

40
g-index

68
all docs

68
docs citations

68
times ranked

727
citing authors

#	ARTICLE	IF	CITATIONS
1	The Stochastic Queue Core problem, evacuation networks, and state-dependent queues. European Journal of Operational Research, 2018, 269, 730-748.	5.7	6
2	Closed Queueing Network Performance Models $f(G(V, E, N))$. Springer Series in Operations Research, 2018, , 261-329.	1.4	0
3	Topological network design of closed finite capacity supply chain networks. Journal of Manufacturing Systems, 2017, 45, 70-81.	13.9	12
4	Joint optimisation of buffers and network population for closed finite queueing systems. International Journal of Production Research, 2016, 54, 5111-5135.	7.5	13
5	Queue decomposition & finite closed queueing network models. Computers and Operations Research, 2015, 53, 176-193.	4.0	13
6	Optimal workload allocation in closed queueing networks with state dependent queues. Annals of Operations Research, 2015, 231, 157-183.	4.1	9
7	Optimal server allocation in closed finite queueing networks. Flexible Services and Manufacturing Journal, 2015, 27, 58-85.	3.4	12
8	System capacity and performance modelling of finite buffer queueing networks. International Journal of Production Research, 2014, 52, 3125-3163.	7.5	11
9	state dependent travel time models and properties. Physica A: Statistical Mechanics and Its Applications, 2014, 395, 560-579.	2.6	25
10	Steiner Minimum Trees in E3: Theory, Algorithms, and Applications. , 2013, , 3179-3259.		0
11	Performance & Optimization of M/G/c/c Building Evacuation Networks. Mathematical Modelling and Algorithms, 2012, 11, 361-386.	0.5	16
12	State-dependent models of material handling systems in closed queueing networks. International Journal of Production Research, 2012, 50, 461-484.	7.5	15
13	Topological arrangements of M/G/c/K, M/G/c/c queues in transportation and material handling systems. Computers and Operations Research, 2012, 39, 2800-2819.	4.0	20
14	Optimal Routing in Closed Queueing Networks with State Dependent Queues. Infor, 2011, 49, 45-62.	0.6	11
15	Introduction to the special issue on Advances in Manufacturing Systems. Annals of Operations Research, 2011, 182, 1-3.	4.1	0
16	Properties and performance modelling of finite buffer M/G/1/K networks. Computers and Operations Research, 2011, 38, 740-754.	4.0	29
17	Topological network design of general, finite, multi-server queueing networks. European Journal of Operational Research, 2010, 201, 427-441.	5.7	32
18	The Multi-Story Space Assignment Problem. Annals of Operations Research, 2010, 179, 77-103.	4.1	22

#	ARTICLE	IF	CITATIONS
19	Optimal server allocation in general, finite, multi-server queueing networks. Applied Stochastic Models in Business and Industry, 2010, 26, 705-736.	1.5	14
20	Buffer and throughput trade-offs in M/G/1/K queueing networks: A bi-criteria approach. International Journal of Production Economics, 2010, 125, 224-234.	8.9	34
21	On the system optimum of traffic assignment in $M/G/c$ state-dependent queueing networks. European Journal of Operational Research, 2010, 201, 183-193.	5.7	27
22	Buffer and server allocation in general multi-server queueing networks. International Transactions in Operational Research, 2010, 17, 257-286.	2.7	23
23	Exact solution of emerging quadratic assignment problems. International Transactions in Operational Research, 2010, 17, 525-552.	2.7	9
24	Robustness of state-dependent queues and material handling systems. International Journal of Production Research, 2010, 48, 4631-4663.	7.5	32
25	An algorithm for the generalized quadratic assignment problem. Computational Optimization and Applications, 2008, 40, 351-372.	1.6	49
26	M/G/c/K PERFORMANCE MODELS IN MANUFACTURING AND SERVICE SYSTEMS. Asia-Pacific Journal of Operational Research, 2008, 25, 531-561.	1.3	6
27	Multi-server, Finite Waiting Room, M/G/c/K Optimization Models. Infor, 2007, 45, 257-274.	0.6	7
28	Approximate analysis of M/G/c/c state-dependent queueing networks. Computers and Operations Research, 2007, 34, 2332-2344.	4.0	51
29	Steiner minimal trees, twist angles, and the protein folding problem. Proteins: Structure, Function and Bioinformatics, 2006, 66, 889-902.	2.6	11
30	Dilemmas in factory design: paradox and paradigm. OR Spectrum, 2005, 27, 171-193.	3.4	1
31	An M/G/C/C state-dependent network simulation model. Computers and Operations Research, 2005, 32, 919-941.	4.0	57
32	Service and capacity allocation in M/G/c/c state-dependent queueing networks. Computers and Operations Research, 2005, 32, 1545-1563.	4.0	39
33	A Sausage Heuristic for Steiner Minimal Trees in Three-Dimensional Euclidean Space. Mathematical Modelling and Algorithms, 2005, 4, 199-217.	0.5	14
34	The buffer allocation problem for general finite buffer queueing networks. IIE Transactions, 2005, 37, 343-365.	2.1	79
35	Steiner Trees and 3-D Macromolecular Conformation. INFORMS Journal on Computing, 2004, 16, 470-485.	1.7	10
36	Combining Routing and Buffer Allocation Problems in Series-Parallel Queueing Networks. Annals of Operations Research, 2004, 125, 47-68.	4.1	14

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37	Properties of R-Sausages. Discrete and Computational Geometry, 2004, 31, 587-611.	0.6	2
38	Sample Size Corrections for the Maximum Partial Likelihood Estimator. Communications in Statistics Part B: Simulation and Computation, 2004, 33, 35-47.	1.2	1
39	Optimal design and performance modelling of M/G/1/K queueing systems. Mathematical and Computer Modelling, 2004, 39, 1049-1081.	2.0	43
40	A Branch-and-Bound Algorithm to Solve a Multi-level Network Optimization Problem. Mathematical Modelling and Algorithms, 2003, 2, 37-56.	0.5	8
41	Steiner Minimal Trees with One Polygonal Obstacle. Algorithmica, 2001, 29, 638-648.	1.3	8
42	Topological network design of pedestrian networks. Transportation Research Part B: Methodological, 2001, 35, 107-135.	5.9	115
43	Quadratic Assignment Problems and M/G/C/C State Dependent Network Flows. Journal of Combinatorial Optimization, 2001, 5, 421-443.	1.3	12
44	Large production line optimization using simulated annealing. International Journal of Production Research, 2000, 38, 509-541.	7.5	69
45	Geometric Optimization Problems for Steiner Minimal Trees in E 3. Nonconvex Optimization and Its Applications, 2000, , 446-476.	0.1	1
46	Steiner Minimal Trees in E 3: Theory, Algorithms, and Applications. , 1998, , 1143-1216.		1
47	Modeling Vehicular Traffic Flow using M/G/C/C State Dependent Queueing Models. Transportation Science, 1997, 31, 324-336.	4.4	127
48	Topological network design of state-dependent queueing networks. Networks, 1996, 28, 55-68.	2.7	5
49	An O(N ²) heuristic for steiner minimal trees in E3. Networks, 1995, 26, 273-289.	2.7	15
50	CELLULAR ARRANGEMENT PROBLEMS WITH RANDOM FLOWS. Engineering Optimization, 1995, 24, 59-74.	2.6	4
51	Computational Geometry and Topological Network Design. Lecture Notes Series on Computing, 1995, , 351-451.	0.2	1
52	Generalized M/G/C/C state dependent queueing models and pedestrian traffic flows. Queueing Systems, 1994, 15, 365-386.	0.9	100
53	Multi-Objective Routing in Stochastic Evacuation Networks. Network Optimization Problems: Algorithms, Applications and Complexity, 1993, , 263-281.	0.1	3
54	Computational Geometry and Topological Network Design. Lecture Notes Series on Computing, 1992, , 287-385.	0.2	0

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55	Minimal length tree networks on the unit sphere. <i>Annals of Operations Research</i> , 1991, 33, 501-535.	4.1	10
56	Steiner minimal trees for three points with one convex polygonal obstacle. <i>Annals of Operations Research</i> , 1991, 33, 577-599.	4.1	11
57	Asymptotic behavior of the expansion method for open finite queueing networks. <i>Computers and Operations Research</i> , 1988, 15, 157-169.	4.0	78
58	The generalized expansion method for open finite queueing networks. <i>European Journal of Operational Research</i> , 1987, 32, 448-461.	5.7	114
59	Two level heuristic for the resource constrained scheduling problem. <i>International Journal of Production Research</i> , 1986, 24, 1203-1219.	7.5	26
60	Ak-SHORTEST PATHS ROUTING HEURISTIC FOR STOCHASTIC NETWORK EVACUATION MODELS. <i>Engineering Optimization</i> , 1984, 7, 253-280.	2.6	24
61	An analytical queueing network computer program for the optimal egress problem. <i>Fire Technology</i> , 1982, 18, 18-37.	3.0	11
62	The use of queueing networks in the evaluation of egress from buildings. <i>Environment and Planning B: Planning and Design</i> , 1981, 8, 125-139.	1.7	34
63	An $O(n \log n)$ heuristic for steiner minimal tree problems on the euclidean metric. <i>Networks</i> , 1981, 11, 23-39.	2.7	93
64	The use of queueing networks and mixed integer programming to allocate resources optimally within a library layout. <i>Journal of the Association for Information Science and Technology</i> , 1981, 32, 33-42.	1.0	8
65	AN $O(N \log N)$ HEURISTIC ALGORITHM FOR THE RECTILINEAR STEINER MINIMAL TREE PROBLEM. <i>Engineering Optimization</i> , 1980, 4, 179-192.	2.6	36
66	STEINER TREES, STEINER CIRCUITS AND THE INTERFERENCE PROBLEM IN BUILDING DESIGN. <i>Engineering Optimization</i> , 1979, 4, 15-36.	2.6	42
67	Application of Queueing Network Models to Optimization of Resource Allocation within Libraries. <i>Journal of the Association for Information Science and Technology</i> , 1979, 30, 250-263.	1.0	23