

# Kate A Smith-Miles

## List of Publications by Year in Descending Order

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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.

136  
papers

4,418  
citations

33  
h-index

63  
g-index

154  
ext. papers

5,326  
ext. citations

3.7  
avg, IF

6.09  
L-index

#	Paper	IF	Citations
136	Enhanced Instance Space Analysis for the Maximum Flow Problem. <i>European Journal of Operational Research</i> , <b>2022</b> ,	5.6	1
135	Towards Understanding Clustering Problems and Algorithms: An Instance Space Analysis. <i>Algorithms</i> , <b>2021</b> , 14, 95	1.8	5
134	An Instance Space Analysis of Regression Problems. <i>ACM Transactions on Knowledge Discovery From Data</i> , <b>2021</b> , 15, 1-25	4	3
133	Instance space analysis for a personnel scheduling problem. <i>Annals of Mathematics and Artificial Intelligence</i> , <b>2021</b> , 89, 617-637	0.8	3
132	Anomaly Detection in High-Dimensional Data. <i>Journal of Computational and Graphical Statistics</i> , <b>2021</b> , 30, 360-374	1.4	11
131	Revisiting where are the hard knapsack problems? via Instance Space Analysis. <i>Computers and Operations Research</i> , <b>2021</b> , 128, 105184	4.6	3
130	On the diversity and robustness of parameterised multi-objective test suites. <i>Applied Soft Computing Journal</i> , <b>2021</b> , 110, 107613	7.5	1
129	Predicting solutions of large-scale optimization problems via machine learning: A case study in blood supply chain management. <i>Computers and Operations Research</i> , <b>2020</b> , 119, 104941	4.6	31
128	Parameter estimation for a point-source diffusion-decay morphogen model. <i>Journal of Mathematical Biology</i> , <b>2020</b> , 80, 2227-2255	2	
127	On normalization and algorithm selection for unsupervised outlier detection. <i>Data Mining and Knowledge Discovery</i> , <b>2020</b> , 34, 309-354	5.6	14
126	Generating New Space-Filling Test Instances for Continuous Black-Box Optimization. <i>Evolutionary Computation</i> , <b>2020</b> , 28, 379-404	4.3	11
125	Early classification of spatio-temporal events using partial information. <i>PLoS ONE</i> , <b>2020</b> , 15, e0236331	3.7	1
124	A transformation technique for the clustered generalized traveling salesman problem with applications to logistics. <i>European Journal of Operational Research</i> , <b>2020</b> , 285, 444-457	5.6	43
123	Anomaly Detection in Streaming Nonstationary Temporal Data. <i>Journal of Computational and Graphical Statistics</i> , <b>2020</b> , 29, 13-27	1.4	22
122	Generation techniques for linear programming instances with controllable properties. <i>Mathematical Programming Computation</i> , <b>2020</b> , 12, 389-415	7.8	1
121	Stochastic optimization of two-machine flow shop robotic cells with controllable inspection times: From theory toward practice. <i>Robotics and Computer-Integrated Manufacturing</i> , <b>2020</b> , 61, 101822	9.2	27
120	A Feature-Based Procedure for Detecting Technical Outliers in Water-Quality Data From In Situ Sensors. <i>Water Resources Research</i> , <b>2019</b> , 55, 8547-8568	5.4	5

119	Symmetry breaking of identical projects in the high-multiplicity RCPSP/max. <i>Journal of the Operational Research Society</i> , <b>2019</b> , 1-22	2	1
118	Instance spaces for machine learning classification. <i>Machine Learning</i> , <b>2018</b> , 107, 109-147	4	52
117	The School Bus Routing Problem: An Analysis and Algorithm. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 287-298	0.9	1
116	Mapping the Effectiveness of Automated Test Suite Generation Techniques. <i>IEEE Transactions on Reliability</i> , <b>2018</b> , 67, 771-785	4.6	13
115	A heuristic algorithm for finding cost-effective solutions to real-world school bus routing problems. <i>Journal of Discrete Algorithms</i> , <b>2018</b> , 52-53, 2-17		4
114	A cross-entropy method for optimising robotic automated storage and retrieval systems. <i>International Journal of Production Research</i> , <b>2018</b> , 56, 6450-6472	7.8	25
113	Dynamic algorithm selection for pareto optimal set approximation. <i>Journal of Global Optimization</i> , <b>2017</b> , 67, 263-282	1.5	2
112	Increasing Throughput for a Class of Two-Machine Robotic Cells Served by a Multifunction Robot. <i>IEEE Transactions on Automation Science and Engineering</i> , <b>2017</b> , 14, 1150-1159	4.9	7
111	Scheduling of two-machine robotic rework cells: In-process, post-process and in-line inspection scenarios. <i>Robotics and Autonomous Systems</i> , <b>2017</b> , 91, 210-225	3.5	19
110	Visualising forecasting algorithm performance using time series instance spaces. <i>International Journal of Forecasting</i> , <b>2017</b> , 33, 345-358	5.3	70
109	A framework for stochastic scheduling of two-machine robotic rework cells with in-process inspection system. <i>Computers and Industrial Engineering</i> , <b>2017</b> , 112, 492-502	6.4	12
108	Generating custom classification datasets by targeting the instance space <b>2017</b> ,		4
107	Performance Analysis of Continuous Black-Box Optimization Algorithms via Footprints in Instance Space. <i>Evolutionary Computation</i> , <b>2017</b> , 25, 529-554	4.3	31
106	Realistic Projection on Casual Dual-Planar Surfaces with Global Illumination Compensation. <i>International Journal of Image and Graphics</i> , <b>2016</b> , 16, 1650014	0.5	
105	On Sampling Methods for Costly Multi-Objective Black-Box Optimization. <i>Springer Optimization and Its Applications</i> , <b>2016</b> , 273-296	0.4	10
104	Generating new test instances by evolving in instance space. <i>Computers and Operations Research</i> , <b>2015</b> , 63, 102-113	4.6	38
103	Support Vector Machines for Characterising Whipple Shield Performance. <i>Procedia Engineering</i> , <b>2015</b> , 103, 522-529		5
102	<b>2015</b> ,		6

101	Resolution of deadlocks in a robotic cell scheduling problem with post-process inspection system: Avoidance and recovery scenarios <b>2015</b> ,		4
100	Notes on Feasibility and Optimality Conditions of Small-Scale Multifunction Robotic Cell Scheduling Problems With Pickup Restrictions. <i>IEEE Transactions on Industrial Informatics</i> , <b>2015</b> , 11, 821-829	11.9	13
99	Classes of structures in the stable atmospheric boundary layer. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2015</b> , 141, 2057-2069	6.4	29
98	Mathematical modeling of GATA-switching for regulating the differentiation of hematopoietic stem cell. <i>BMC Systems Biology</i> , <b>2014</b> , 8 Suppl 1, S8	3.5	26
97	Managing uncertainty in early estimation of epidemic behaviors using scenario trees. <i>IIE Transactions</i> , <b>2014</b> , 46, 828-842		2
96	Assessing partnership savings in horizontal cooperation by planning linked deliveries. <i>Transportation Research, Part A: Policy and Practice</i> , <b>2014</b> , 66, 268-279	3.7	27
95	Towards objective measures of algorithm performance across instance space. <i>Computers and Operations Research</i> , <b>2014</b> , 45, 12-24	4.6	90
94	Exploring the role of graph spectra in graph coloring algorithm performance. <i>Discrete Applied Mathematics</i> , <b>2014</b> , 176, 107-121	1	2
93	Approximate Bayesian computation schemes for parameter inference of discrete stochastic models using simulated likelihood density. <i>BMC Bioinformatics</i> , <b>2014</b> , 15 Suppl 12, S3	3.6	11
92	An approach to the mean shift outlier model by Tikhonov regularization and conic programming. <i>Intelligent Data Analysis</i> , <b>2014</b> , 18, 79-94	1.1	7
91	A note on the relationship between turbulent coherent structures and phase correlation. <i>Chaos</i> , <b>2014</b> , 24, 023114	3.3	1
90	Detecting and Classifying Events in Noisy Time Series. <i>Journals of the Atmospheric Sciences</i> , <b>2014</b> , 71, 1090-1104	2.1	23
89	Efficient Identification of the Pareto Optimal Set. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 341-352	0.9	3
88	Stochastic modelling of biochemical systems of multi-step reactions using a simplified two-variable model. <i>BMC Systems Biology</i> , <b>2013</b> , 7 Suppl 4, S14	3.5	3
87	Approximate Bayesian computation for estimating rate constants in biochemical reaction systems <b>2013</b> ,		1
86	Multi-user natural interaction with sensor on activity <b>2013</b> ,		3
85	Fast, accurate, and small-scale direct trajectory optimization using a Gegenbauer transcription method. <i>Journal of Computational and Applied Mathematics</i> , <b>2013</b> , 251, 93-116	2.4	15
84	On the optimization of Gegenbauer operational matrix of integration. <i>Advances in Computational Mathematics</i> , <b>2013</b> , 39, 511-524	1.6	3

83	Solving boundary value problems, integral, and integro-differential equations using Gegenbauer integration matrices. <i>Journal of Computational and Applied Mathematics</i> , <b>2013</b> , 237, 307-325	2.4	37
82	Optimal Gegenbauer quadrature over arbitrary integration nodes. <i>Journal of Computational and Applied Mathematics</i> , <b>2013</b> , 242, 82-106	2.4	23
81	Predicting Metaheuristic Performance on Graph Coloring Problems Using Data Mining. <i>Studies in Computational Intelligence</i> , <b>2013</b> , 417-432	0.8	6
80	Generating Applicable Synthetic Instances for Branch Problems. <i>Operations Research</i> , <b>2013</b> , 61, 563-577	2.3	11
79	Measuring instance difficulty for combinatorial optimization problems. <i>Computers and Operations Research</i> , <b>2012</b> , 39, 875-889	4.6	121
78	Self-organizing circuitry and emergent computation in mouse embryonic stem cells. <i>Stem Cell Research</i> , <b>2012</b> , 8, 324-33	1.6	16
77	Mathematical modelling of stem cell differentiation: the PU.1-GATA-1 interaction. <i>Journal of Mathematical Biology</i> , <b>2012</b> , 64, 449-68	2	27
76	A two-variable model for stochastic modelling of chemical events with multi-step reactions <b>2012</b> ,		1
75	. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>2012</b> , 24, 533-546	4.2	26
74	Measuring algorithm footprints in instance space <b>2012</b> ,		16
73	Generalising Algorithm Performance in Instance Space: A Timetabling Case Study. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 524-538	0.9	16
72	Face image modeling by multilinear subspace analysis with missing values. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , <b>2011</b> , 41, 881-92		44
71	Future trends in business analytics and optimization. <i>Intelligent Data Analysis</i> , <b>2011</b> , 15, 1001-1017	1.1	6
70	Discovering the suitability of optimisation algorithms by learning from evolved instances. <i>Annals of Mathematics and Artificial Intelligence</i> , <b>2011</b> , 61, 87-104	0.8	65
69	Projection defocus correction using adaptive kernel sampling and geometric correction in dual-planar environments <b>2011</b> ,		2
68	Method for optimizing coating properties based on an evolutionary algorithm approach. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 6373-80	7.8	6
67	Meta-Learning of Instance Selection for Data Summarization. <i>Studies in Computational Intelligence</i> , <b>2011</b> , 77-95	0.8	1
66	Functionalization of microarray devices: Process optimization using a multiobjective PSO and multiresponse MARS modeling <b>2010</b> ,		3

65	Meta-learning for data summarization based on instance selection method <b>2010</b> ,		6
64	Context-aware fusion: A case study on fusion of gait and face for human identification in video. <i>Pattern Recognition</i> , <b>2010</b> , 43, 3660-3673	7.7	25
63	Understanding TSP Difficulty by Learning from Evolved Instances. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 266-280	0.9	37
62	Pitfalls in Instance Generation for Udiue Timetabling. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 299-302	0.9	6
61	Face image modeling by multilinear subspace analysis with missing values <b>2009</b> ,		3
60	Rule induction for forecasting method selection: Meta-learning the characteristics of univariate time series. <i>Neurocomputing</i> , <b>2009</b> , 72, 2581-2594	5.4	92
59	On the communal analysis suspicion scoring for identity crime in streaming credit applications. <i>European Journal of Operational Research</i> , <b>2009</b> , 195, 595-612	5.6	17
58	Identifying patterns in primary care consultations: a cluster analysis. <i>Journal of Evaluation in Clinical Practice</i> , <b>2009</b> , 15, 558-64	2.5	3
57	Cross-disciplinary perspectives on meta-learning for algorithm selection. <i>ACM Computing Surveys</i> , <b>2009</b> , 41, 1-25	13.4	253
56	Facial age estimation by multilinear subspace analysis <b>2009</b> ,		25
55	A Knowledge Discovery Approach to Understanding Relationships between Scheduling Problem Structure and Heuristic Performance. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 89-103	0.9	21
54	Towards insightful algorithm selection for optimisation using meta-learning concepts <b>2008</b> ,		48
53	Correction to "Automatic Age Estimation Based on Facial Aging Patterns". <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2008</b> , 30, 368-368	13.3	26
52	Adaptive Fusion of Gait and Face for Human Identification in Video <b>2008</b> ,		17
51	Facial age estimation by nonlinear aging pattern subspace <b>2008</b> ,		39
50	Individual stable space: an approach to face recognition under uncontrolled conditions. <i>IEEE Transactions on Neural Networks</i> , <b>2008</b> , 19, 1354-68		25
49	Using Supervised and Unsupervised Techniques to Determine Groups of Patients with Different Doctor-Patient Stability <b>2008</b> , 715-722		
48	A novel Episodic Associative Memory model for enhanced classification accuracy. <i>Pattern Recognition Letters</i> , <b>2007</b> , 28, 1193-1202	4.7	8

47	Adaptive communal detection in search of adversarial identity crime <b>2007</b> ,		3
46	On optimal degree selection for polynomial kernel with support vector machines: Theoretical and empirical investigations. <i>International Journal of Knowledge-Based and Intelligent Engineering Systems</i> , <b>2007</b> , 11, 1-18	0.5	6
45	Redundant association rules reduction techniques. <i>International Journal of Business Intelligence and Data Mining</i> , <b>2007</b> , 2, 29	0.3	43
44	Automatic age estimation based on facial aging patterns. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2007</b> , 29, 2234-40	13.3	581
43	A meta-learning approach to automatic kernel selection for support vector machines. <i>Neurocomputing</i> , <b>2006</b> , 70, 173-186	5.4	80
42	Communal Detection of Implicit Personal Identity Streams <b>2006</b> ,		4
41	On learning algorithm selection for classification. <i>Applied Soft Computing Journal</i> , <b>2006</b> , 6, 119-138	7.5	224
40	Improved Support Vector Machine Generalization Using Normalized Input Space. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 362-371	0.9	11
39	Characteristic-Based Clustering for Time Series Data. <i>Data Mining and Knowledge Discovery</i> , <b>2006</b> , 13, 335-364	5.6	288
38	Fuzzy-neuro Web-Based Multilingual Knowledge Management. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 1229-1238	0.9	
37	Clustering Massive High Dimensional Data with Dynamic Feature Maps. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 814-823	0.9	3
36	Ontology Learning from Text: A Soft Computing Paradigm. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 295-301		301
35	Temporal Representation in Spike Detection of Sparse Personal Identity Streams. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 115-126	0.9	3
34	A clustering algorithm based on an estimated distribution model. <i>International Journal of Business Intelligence and Data Mining</i> , <b>2005</b> , 1, 229	0.3	5
33	Intelligent web traffic mining and analysis. <i>Journal of Network and Computer Applications</i> , <b>2005</b> , 28, 147-165		45
32	Optimization via intermittency with a self-organizing neural network. <i>Neural Computation</i> , <b>2005</b> , 17, 2454-81	2.9	17
31	Kernel Width Selection for SVM Classification. <i>International Journal of Data Warehousing and Mining</i> , <b>2005</b> , 1, 78-97	1	6
30	PPDAM. <i>International Journal of Intelligent Information Technologies</i> , <b>2005</b> , 1, 49-69	0.9	18

29	Artificial neural networks and job-specific modules to assess occupational exposure. <i>Annals of Occupational Hygiene</i> , <b>2004</b> , 48, 595-600		16
28	A noisy self-organizing neural network with bifurcation dynamics for combinatorial optimization. <i>IEEE Transactions on Neural Networks</i> , <b>2004</b> , 15, 84-98		16
27	The VSA Process for Oxygen Enrichment: Process Description and Dynamic Modeling Using Neural Networks. <i>International Journal of Smart Engineering System Design</i> , <b>2003</b> , 5, 1-9		3
26	Web page clustering using a self-organizing map of user navigation patterns. <i>Decision Support Systems</i> , <b>2003</b> , 35, 245-256	5.6	74
25	Hopfield neural networks for timetabling: formulations, methods, and comparative results. <i>Computers and Industrial Engineering</i> , <b>2003</b> , 44, 283-305	6.4	47
24	Manufacturing cell formation using a new self-organizing neural network. <i>Computers and Industrial Engineering</i> , <b>2002</b> , 42, 377-382	6.4	41
23	A mathematical programming approach to optimise insurance premium pricing within a data mining framework. <i>Journal of the Operational Research Society</i> , <b>2002</b> , 53, 1197-1203	2	10
22	Modeling the Effect of Premium Changes on Motor Insurance Customer Retention Rates Using Neural Networks. <i>Lecture Notes in Computer Science</i> , <b>2001</b> , 390-399	0.9	5
21	Genetic Line Search. <i>Lecture Notes in Computer Science</i> , <b>2001</b> , 318-326	0.9	
20	Neural networks in business: techniques and applications for the operations researcher. <i>Computers and Operations Research</i> , <b>2000</b> , 27, 1023-1044	4.6	159
19	Experimental analysis of chaotic neural network models for combinatorial optimization under a unifying framework. <i>Neural Networks</i> , <b>2000</b> , 13, 731-44	9.1	60
18	An analysis of customer retention and insurance claim patterns using data mining: a case study. <i>Journal of the Operational Research Society</i> , <b>2000</b> , 51, 532-541	2	71
17	A unified framework for chaotic neural-network approaches to combinatorial optimization. <i>IEEE Transactions on Neural Networks</i> , <b>1999</b> , 10, 978-81		49
16	Neural Networks for Combinatorial Optimization: A Review of More Than a Decade of Research. <i>INFORMS Journal on Computing</i> , <b>1999</b> , 11, 15-34	2.4	219
15	On chaotic simulated annealing. <i>IEEE Transactions on Neural Networks</i> , <b>1998</b> , 9, 716-8		131
14	Neural techniques for combinatorial optimization with applications. <i>IEEE Transactions on Neural Networks</i> , <b>1998</b> , 9, 1301-18		82
13	Static and dynamic channel assignment using neural networks. <i>IEEE Journal on Selected Areas in Communications</i> , <b>1997</b> , 15, 238-249	14.2	77
12	Neural versus traditional approaches to the location of interacting hub facilities. <i>Location Science</i> , <b>1996</b> , 4, 155-171		45



11	An argument for abandoning the travelling salesman problem as a neural-network benchmark. <i>IEEE Transactions on Neural Networks</i> , <b>1996</b> , 7, 1542-4		27
10	A hybrid neural approach to combinatorial optimization. <i>Computers and Operations Research</i> , <b>1996</b> , 23, 597-610	4.6	37
9	Traditional heuristic versus Hopfield neural network approaches to a car sequencing problem. <i>European Journal of Operational Research</i> , <b>1996</b> , 93, 300-316	5.6	31
8	HDGSOMr: a high dimensional growing self-organizing map using randomness for efficient Web and text mining		8
7	Automatic parameter selection for polynomial kernel		16
6	A neural clustering approach to iso-resource grouping for acute healthcare in Australia		3
5	Characteristic updating-normalisation dynamics of a self-organising neural network for enhanced combinatorial optimisation		1
4	Coordinated scheduling of production and delivery from multiple plants and with time windows using genetic algorithms		11
3	A new parallel genetic algorithm		1
2	Analyzing randomness effects on the reliability of exploratory landscape analysis. <i>Natural Computing</i> , 1	1.3	3
1	Algorithm selection and instance space analysis for curriculum-based course timetabling. <i>Journal of Scheduling</i> , 1	1.6	1