

Jonathan E Fieldsend

List of Publications by Year in descending order

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73
papers

1,683
citations

516215

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395343

33
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75
all docs

75
docs citations

75
times ranked

1572
citing authors

#	ARTICLE	IF	CITATIONS
1	A Visualizable Test Problem Generator for Many-Objective Optimization. IEEE Transactions on Evolutionary Computation, 2022, 26, 1-11.	7.5	11
2	Key reaction components affect the kinetics and performance robustness of cell-free protein synthesis reactions. Computational and Structural Biotechnology Journal, 2022, 20, 218-229.	1.9	4
3	Optimising Diversity in Classifier Ensembles. SN Computer Science, 2022, 3, 1.	2.3	0
4	Guiding surrogate-assisted multi-objective optimisation with decision maker preferences. , 2022, , .		1
5	Optimising Diversity in Classifier Ensembles of Classification Trees. Lecture Notes in Computer Science, 2021, , 634-648.	1.0	0
6	Greed Is Good: Exploration and Exploitation Trade-offs in Bayesian Optimisation. ACM Transactions on Evolutionary Learning, 2021, 1, 1-22.	2.7	40
7	Multi-Objective Bayesian Optimisation Using an Exploitative Attainment Front Acquisition Function. , 2021, , .		2
8	Towards population-based fitness landscape analysis using local optima networks. , 2021, , .		2
9	Large-Scale Evolutionary Multiobjective Optimization Assisted by Directed Sampling. IEEE Transactions on Evolutionary Computation, 2021, 25, 724-738.	7.5	74
10	A scoping review using social network analysis techniques to summarise the prevalence of methods used to acquire data for athlete surveillance in sport. International Journal of Computer Science in Sport, 2021, 20, 175-197.	0.6	1
11	Cell-free protein synthesis in hydrogel materials. Chemical Communications, 2020, 56, 7108-7111.	2.2	25
12	µ-shotgun. , 2020, , .		11
13	Data structures for non-dominated sets. , 2020, , .		6
14	A feature rich distance-based many-objective visualisable test problem generator. , 2019, , .		17
15	Efficient real-time hypervolume estimation with monotonically reducing error. , 2019, , .		7
16	Landscape analysis under measurement error. , 2019, , .		0
17	Visualising the landscape of multi-objective problems using local optima networks. , 2019, , .		12
18	A Review of Shape Distortion Methods Available in the OpenFOAM [®] Framework for Automated Design Optimisation. , 2019, , 389-399.		3

#	ARTICLE	IF	CITATIONS
19	Automated and Surrogate Multi-Resolution Approaches in Genetic Algorithms. , 2019, , .		1
20	Automated shape optimisation of a plane asymmetric diffuser using combined Computational Fluid Dynamic simulations and multi-objective Bayesian methodology. International Journal of Computational Fluid Dynamics, 2019, 33, 256-271.	0.5	7
21	A Suite of Computationally Expensive Shape Optimisation Problems Using Computational Fluid Dynamics. Lecture Notes in Computer Science, 2018, , 296-307.	1.0	25
22	Robust multi-modal optimisation. , 2018, , .		1
23	Data-driven multi-objective optimisation of coal-fired boiler combustion systems. Applied Energy, 2018, 229, 446-458.	5.1	48
24	A Framework of Fog Computing: Architecture, Challenges, and Optimization. IEEE Access, 2017, 5, 25445-25454.	2.6	153
25	Alternative infill strategies for expensive multi-objective optimisation. , 2017, , .		24
26	University staff teaching allocation. , 2017, , .		6
27	Constraint handling in efficient global optimization. , 2017, , .		23
28	Optimisation and landscape analysis of computational biology models. , 2017, , .		7
29	On the exploitation of search history and accumulative sampling in robust optimisation. , 2017, , .		1
30	Visualisation Methods in Genetic and Evolutionary Computation (VizGEC 2016) Chairs' Welcome & Organization. , 2016, , .		0
31	Surrogate-Assisted Evolutionary Optimisation (SAEOpt'16) Chairs' Welcome & Organization. , 2016, , .		0
32	Enabling Dominance Resistance in Visualisable Distance-Based Many-Objective Problems. , 2016, , .		7
33	Evolutionary multi-path routing for network lifetime and robustness in wireless sensor networks. Ad Hoc Networks, 2016, 52, 130-145.	3.4	31
34	Multi-objective optimisation of viscoelastic damping inserts in honeycomb sandwich structures. Composite Structures, 2015, 132, 451-463.	3.1	12
35	The Rolling Tide Evolutionary Algorithm: A Multiobjective Optimizer for Noisy Optimization Problems. IEEE Transactions on Evolutionary Computation, 2015, 19, 103-117.	7.5	45
36	Hybrid Evolutionary Approaches to Maximum Lifetime Routing and Energy Efficiency in Sensor Mesh Networks. Evolutionary Computation, 2015, 23, 481-507.	2.3	7

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37	Strength Through Diversity. , 2015, , .		7
38	Using an adaptive collection of local evolutionary algorithms for multi-modal problems. Soft Computing, 2015, 19, 1445-1460.	2.1	30
39	Elite Accumulative Sampling Strategies for Noisy Multi-objective Optimisation. Lecture Notes in Computer Science, 2015, , 172-186.	1.0	5
40	Multi-objective routing optimisation for battery-powered wireless sensor mesh networks. , 2014, , .		3
41	Running Up Those Hills: Multi-modal search with the niching migratory multi-swarm optimiser. , 2014, , .		67
42	Life on the Edge: Characterising the Edges of Mutually Non-dominating Sets. Evolutionary Computation, 2014, 22, 479-501.	2.3	1
43	Efficiently identifying pareto solutions when objective values change. , 2014, , .		5
44	Visualizing Mutually Nondominating Solution Sets in Many-Objective Optimization. IEEE Transactions on Evolutionary Computation, 2013, 17, 165-184.	7.5	221
45	Edges of mutually non-dominating sets. , 2013, , .		2
46	Multi-modal optimisation using a localised surrogates assisted evolutionary algorithm. , 2013, , .		4
47	Visualising High-Dimensional Pareto Relationships in Two-Dimensional Scatterplots. Lecture Notes in Computer Science, 2013, , 558-572.	1.0	10
48	Visualising many-objective populations. , 2012, , .		7
49	Rank-based dimension reduction for many-criteria populations. , 2011, , .		0
50	Visualisation and ordering of many-objective populations. , 2010, , .		23
51	Variable interactions and exploring parameter space in an expensive optimisation problem: Optimising Short Term Conflict Alert. , 2010, , .		1
52	A Bayesian framework for active learning. , 2010, , .		1
53	Optimizing Decision Trees Using Multi-objective Particle Swarm Optimization. Studies in Computational Intelligence, 2009, , 93-114.	0.7	12
54	Dominance-Based Multiobjective Simulated Annealing. IEEE Transactions on Evolutionary Computation, 2008, 12, 323-342.	7.5	115

#	ARTICLE	IF	CITATIONS
55	Erratum to "Dominance-Based Multiobjective Simulated Annealing". IEEE Transactions on Evolutionary Computation, 2008, 12, 781-781.	7.5	2
56	On the efficient use of uncertainty when performing expensive ROC optimisation. , 2008, , .		1
57	Multiobjective Supervised Learning. Natural Computing Series, 2008, , 155-176.	2.2	2
58	Confident Interpretation of Bayesian Decision Tree Ensembles for Clinical Applications. IEEE Transactions on Information Technology in Biomedicine, 2007, 11, 312-319.	3.6	43
59	Estimating Classification Uncertainty of Bayesian Decision Tree Technique on Financial Data. Studies in Computational Intelligence, 2007, , 155-179.	0.7	0
60	Notes on shape orientation where the standard method does not work. Pattern Recognition, 2006, 39, 856-865.	5.1	38
61	Comparison of the Bayesian and Randomised Decision Tree Ensembles within an Uncertainty Envelope Technique. Mathematical Modelling and Algorithms, 2006, 5, 397-416.	0.5	9
62	Representing classifier confidence in the safety critical domain: an illustration from mortality prediction in trauma cases. Neural Computing and Applications, 2006, 16, 1-10.	3.2	11
63	Confidence in Classification: A Bayesian Approach. Journal of Classification, 2006, 23, 199-220.	1.2	16
64	Multi-class ROC analysis from a multi-objective optimisation perspective. Pattern Recognition Letters, 2006, 27, 918-927.	2.6	148
65	Interpretability of Bayesian Decision Trees Induced from Trauma Data. Lecture Notes in Computer Science, 2006, , 972-981.	1.0	1
66	Classification with Confidence for Critical Systems. , 2006, , 231-239.		0
67	Multi-Objective Optimisation for Receiver Operating Characteristic Analysis. , 2006, , 533-556.		3
68	Multi-Objective Optimisation for Receiver Operating Characteristic Analysis. , 2006, , 531-556.		0
69	Regression Error Characteristic Optimisation of Non-Linear Models. , 2006, , 101-123.		0
70	Pareto Evolutionary Neural Networks. IEEE Transactions on Neural Networks, 2005, 16, 338-354.	4.8	83
71	A MOPSO Algorithm Based Exclusively on Pareto Dominance Concepts. Lecture Notes in Computer Science, 2005, , 459-473.	1.0	187
72	OPTIMIZING FORECAST MODEL COMPLEXITY USING MULTI-OBJECTIVE EVOLUTIONARY ALGORITHMS. Advances in Natural Computation, 2004, , 675-700.	0.1	6

#	ARTICLE	IF	CITATIONS
73	Application of multi-objective Bayesian shape optimisation to a sharp-heeled Kaplan draft tube. Optimization and Engineering, 0, , 1.	1.3	2