

Will N Browne

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.

119
papers

2,862
citations

18
h-index

51
g-index

152
ext. papers

3,557
ext. citations

3.7
avg, IF

5.79
L-index

#	Paper	IF	Citations
119	. <i>IEEE Transactions on Evolutionary Computation</i> , 2016 , 20, 606-626	15.6	776
118	Particle swarm optimization for feature selection in classification: a multi-objective approach. <i>IEEE Transactions on Cybernetics</i> , 2013 , 43, 1656-71	10.2	716
117	Particle swarm optimisation for feature selection in classification: Novel initialisation and updating mechanisms. <i>Applied Soft Computing Journal</i> , 2014 , 18, 261-276	7.5	334
116	Reusing Building Blocks of Extracted Knowledge to Solve Complex, Large-Scale Boolean Problems. <i>IEEE Transactions on Evolutionary Computation</i> , 2014 , 18, 465-480	15.6	90
115	A multi-objective particle swarm optimisation for filter-based feature selection in classification problems. <i>Connection Science</i> , 2012 , 24, 91-116	2.8	77
114	Multi-objective particle swarm optimisation (PSO) for feature selection 2012 ,		45
113	BINARY PSO AND ROUGH SET THEORY FOR FEATURE SELECTION: A MULTI-OBJECTIVE FILTER BASED APPROACH. <i>International Journal of Computational Intelligence and Applications</i> , 2014 , 13, 1450009	1.2	43
112	A Comprehensive Comparison on Evolutionary Feature Selection Approaches to Classification. <i>International Journal of Computational Intelligence and Applications</i> , 2015 , 14, 1550008	1.2	40
111	MULTI-OBJECTIVE EVOLUTIONARY ALGORITHMS FOR FILTER BASED FEATURE SELECTION IN CLASSIFICATION. <i>International Journal on Artificial Intelligence Tools</i> , 2013 , 22, 1350024	0.9	40
110	Introduction to Learning Classifier Systems. <i>SpringerBriefs in Intelligent Systems</i> , 2017 ,	0.2	33
109	Evolving optimum populations with XCS classifier systems. <i>Soft Computing</i> , 2013 , 17, 503-518	3.5	26
108	Novel Initialisation and Updating Mechanisms in PSO for Feature Selection in Classification. <i>Lecture Notes in Computer Science</i> , 2013 , 428-438	0.9	23
107	Image feature selection using genetic programming for figure-ground segmentation. <i>Engineering Applications of Artificial Intelligence</i> , 2017 , 62, 96-108	7.2	22
106	Theoretical XCS parameter settings of learning accurate classifiers 2017 ,		21
105	Extending learning classifier system with cyclic graphs for scalability on complex, large-scale boolean problems 2013 ,		21
104	Extracting and using building blocks of knowledge in learning classifier systems 2012 ,		19
103	XCSR with Computed Continuous Action. <i>Lecture Notes in Computer Science</i> , 2012 , 350-361	0.9	19

102	Uncanny valley revisited		18
101	Genetic programming for evolving figure-ground segmentors from multiple features. <i>Applied Soft Computing Journal</i> , 2017 , 51, 83-95	7.5	17
100	Learning feature fusion strategies for various image types to detect salient objects. <i>Pattern Recognition</i> , 2016 , 60, 106-120	7.7	17
99	Salient object detection using learning classifiersystems that compute action mappings 2014 ,		12
98	Using unrestricted loops in genetic programming for image classification 2010 ,		12
97	Salient object detection via spectral matting. <i>Pattern Recognition</i> , 2016 , 51, 209-224	7.7	11
96	Learning complex, overlapping and niche imbalance Boolean problems using XCS-based classifier systems. <i>Evolutionary Intelligence</i> , 2013 , 6, 73-91	1.7	11
95	Learning overlapping natured and niche imbalance boolean problems using XCS classifier systems 2013 ,		11
94	Particle swarm optimisation for outlier detection 2010 ,		11
93	Engaging Robots: Innovative Outreach for Attracting Cybernetics Students. <i>IEEE Transactions on Education</i> , 2010 , 53, 105-113	2.1	11
92	Human-inspired Scaling in Learning Classifier Systems 2016 ,		11
91	Absumption to complement subsumption in learning classifier systems 2019 ,		11
90	Design, implementation and testing of an intelligent knowledge-based system for the supervisory control of a hot rolling mill. <i>Journal of Process Control</i> , 2005 , 15, 615-628	3.9	10
89	SILVEREYE □The Implementation of Particle Swarm Optimization Algorithm in a Design Optimization Tool. <i>Communications in Computer and Information Science</i> , 2017 , 151-169	0.3	10
88	Feature Quality-Based Dynamic Feature Selection for Improving Salient Object Detection. <i>IEEE Transactions on Image Processing</i> , 2016 , 25, 4298-4313	8.7	9
87	PSO for feature construction and binary classification 2013 ,		9
86	Image Segmentation: A Survey of Methods Based on Evolutionary Computation. <i>Lecture Notes in Computer Science</i> , 2014 , 847-859	0.9	9
85	Investigating scaling of an abstracted LCS utilising ternary and s-expression alphabets 2007 ,		9

84	Extending XCS with Cyclic Graphs for Scalability on Complex Boolean Problems. <i>Evolutionary Computation</i> , 2017 , 25, 173-204	4.3	8
83	Reusing learned functionality in XCS 2014 ,		8
82	Evolution of aesthetically pleasing images without human-in-the-loop 2010 ,		8
81	Automatically defined functions for learning classifier systems 2011 ,		8
80	Knowledge-elicitation and data-mining: Fusing human and industrial plant information. <i>Engineering Applications of Artificial Intelligence</i> , 2006 , 19, 345-359	7.2	8
79	Sampling Methods in Genetic Programming for Classification with Unbalanced Data. <i>Lecture Notes in Computer Science</i> , 2010 , 273-282	0.9	8
78	Learned Action SLAM: Sharing SLAM through learned path planning information between heterogeneous robotic platforms. <i>Applied Soft Computing Journal</i> , 2017 , 50, 313-326	7.5	7
77	Improving genetic search in XCS-based classifier systems through understanding the evolvability of classifier rules. <i>Soft Computing</i> , 2015 , 19, 1863-1880	3.5	7
76	A Supervised Figure-Ground Segmentation Method Using Genetic Programming. <i>Lecture Notes in Computer Science</i> , 2015 , 491-503	0.9	7
75	Visualisation and Optimisation of Learning Classifier Systems for Multiple Domain Learning. <i>Lecture Notes in Computer Science</i> , 2017 , 448-461	0.9	7
74	Transparent, Online Image Pattern Classification Using a Learning Classifier System. <i>Lecture Notes in Computer Science</i> , 2011 , 183-193	0.9	7
73	Fly-flight moth-flame optimisation algorithm-based micro-grid equipment sizing: An integrated investment and operational planning approach. <i>Energy and AI</i> , 2021 , 3, 100047	12.6	7
72	The Role of Algorithms in Profiling 2008 , 65-87		7
71	Theoretical adaptation of multiple rule-generation in XCS 2018 ,		6
70	2015 ,		6
69	Prediction of success in engineering study 2012 ,		6
68	New fitness functions in binary particle swarm optimisation for feature selection 2012 ,		6
67	Reusing Learned Functionality to Address Complex Boolean Functions. <i>Lecture Notes in Computer Science</i> , 2014 , 383-394	0.9	6

66	Strategic design optimisation of multi-energy-storage-technology micro-grids considering a two-stage game-theoretic market for demand response aggregation. <i>Applied Energy</i> , 2021 , 287, 116563	10.7	6
65	Multi-objective Genetic Programming for Figure-Ground Image Segmentation. <i>Lecture Notes in Computer Science</i> , 2016 , 134-146	0.9	5
64	Steps to increase student engagement and retention in first year engineering 2013 ,		5
63	An abstraction algorithm for genetics-based reinforcement learning 2005 ,		5
62	An autonomous explore/exploit strategy 2005 ,		5
61	2020 ,		5
60	Figure-ground image segmentation using feature-based multi-objective genetic programming techniques. <i>Neural Computing and Applications</i> , 2019 , 31, 3075-3094	4.8	5
59	Learning Optimality Theory for Accuracy-Based Learning Classifier Systems. <i>IEEE Transactions on Evolutionary Computation</i> , 2021 , 25, 61-74	15.6	5
58	Combining object-based local and global feature statistics for salient object search 2013 ,		4
57	Human-interpretable feature pattern classification system using learning classifier systems. <i>Evolutionary Computation</i> , 2014 , 22, 629-50	4.3	4
56	Genetic algorithms based feature combination for salient object detection, for autonomously identified image domain types 2014 ,		4
55	Comparison of two methods for computing action values in XCS with code-fragment actions 2013 ,		4
54	New crossover operators in linear genetic programming for multiclass object classification 2010 ,		4
53	Cognitive robotics: new insights into robot and human intelligence by reverse engineering brain functions [From the Guest Editors]. <i>IEEE Robotics and Automation Magazine</i> , 2009 , 16, 17-18	3.4	4
52	Two-cornered learning classifier systems for pattern generation and classification 2012 ,		4
51	XCS-based versus UCS-based feature pattern classification system 2012 ,		4
50	Adapting Bagging and Boosting to Learning Classifier Systems. <i>Lecture Notes in Computer Science</i> , 2018 , 405-420	0.9	4
49	Memory-Based Cognitive Framework: A Low-Level Association Approach to Cognitive Architectures. <i>Lecture Notes in Computer Science</i> , 2011 , 402-409	0.9	4

48	Compaction for Code Fragment Based Learning Classifier Systems. <i>Lecture Notes in Computer Science</i> , 2016 , 41-53	0.9	4
47	Figure-ground image segmentation using genetic programming and feature selection 2016 ,		4
46	Identifying Simple Shapes to Classify the Big Picture 2019 ,		4
45	Modelling utility-aggregator-customer interactions in interruptible load programmes using non-cooperative game theory. <i>International Journal of Electrical Power and Energy Systems</i> , 2021 , 133, 107183	5.1	4
44	How XCS can prevent misdistinguishing rule accuracy 2019 ,		3
43	Learning figure-ground image segmentors by genetic programming 2017 ,		3
42	Online Feature-Generation of Code Fragments for XCS to Guide Feature Construction 2019 ,		3
41	Optimizing visual attention models for predicting human fixations using Genetic Algorithms 2013 ,		3
40	Accurate marker based distance measurement with single camera 2015 ,		3
39	A Hybridised Evolutionary Algorithm for Multi-Criterion Minimum Spanning Tree Problems 2008 ,		3
38	An industrial Learning Classifier System: the importance of pre-processing real data and choice of alphabet. <i>Engineering Applications of Artificial Intelligence</i> , 2000 , 13, 25-36	7.2	3
37	Lateralized learning for robustness against adversarial attacks in a visual classification system 2020 ,		3
36	Feature Construction Using Genetic Programming for Figure-Ground Image Segmentation. <i>Proceedings in Adaptation, Learning and Optimization</i> , 2017 , 237-250	0.2	3
35	Investigating Scaling of an Abstracted LCS Utilising Ternary and S-Expression Alphabets. <i>Lecture Notes in Computer Science</i> , 2008 , 46-56	0.9	3
34	A comprehensive strategy for mammogram image classification using learning classifier systems 2016 ,		3
33	Integration of code-fragment based learning classifier systems for multiple domain perception and learning 2016 ,		3
32	How should learning classifier systems cover a state-action space? 2015 ,		2
31	Adaptive artificial datasets through learning classifier systems for classification tasks. <i>Evolutionary Intelligence</i> , 2013 , 6, 93-107	1.7	2

30	Adaptive artificial datasets through learning classifier systems for classification tasks 2013 ,		2
29	Extending evolutionary algorithms to discover tri-criterion and non-supported solutions for the minimum spanning tree problem 2009 ,		2
28	EMOTIONAL COGNITIVE STEPS TOWARDS CONSCIOUSNESS. <i>International Journal of Machine Consciousness</i> , 2009 , 01, 203-211		2
27	Confusion matrices for improving performance of feature pattern classifier systems 2011 ,		2
26	Consumer Robotic Products. <i>IEEE Robotics and Automation Magazine</i> , 2008 , 15, 71-79	3.4	2
25	A Knowledge-Based Evolution Strategy for the Multi-Objective Minimum Spanning Tree Problem 2006 ,		2
24	Absumption and subsumption based learning classifier systems 2020 ,		2
23	Emotion Categorization from Video-Frame Images Using a Novel Sequential Voting Technique. <i>Lecture Notes in Computer Science</i> , 2020 , 618-632	0.9	2
22	A Memetic Algorithm for the Task Allocation Problem on Multi-robot Multi-point Dynamic Aggregation Missions 2020 ,		2
21	Visualizations for rule-based machine learning. <i>Natural Computing</i> ,1	1.3	2
20	Frames-of-Reference based Learning: Overcoming Perceptual Aliasing in Multi-Step Decision Making Tasks. <i>IEEE Transactions on Evolutionary Computation</i> , 2021 , 1-1	15.6	2
19	A Comparison of Learning Classifier Systems[Rule Compaction Algorithms for Knowledge Visualization. <i>ACM Transactions on Evolutionary Learning</i> , 2021 , 1, 1-38		2
18	Lateralized Approach for Robustness Against Attacks in Emotion Categorization from Images. <i>Lecture Notes in Computer Science</i> , 2021 , 469-485	0.9	2
17	Automated Coordination Strategy Design Using Genetic Programming for Dynamic Multipoint Dynamic Aggregation. <i>IEEE Transactions on Cybernetics</i> , 2021 , PP,	10.2	2
16	XCS with Combined Reward Method (XCSCR) for Policy Search in Multistep Problems 2019 ,		1
15	Introducing Rule-based Machine Learning 2015 ,		1
14	Utility function generated saccade strategies for robot active vision: a probabilistic approach. <i>Autonomous Robots</i> , 2019 , 43, 947-966	3	1
13	Improvement of code fragment fitness to guide feature construction in XCS 2019 ,		1

12	Three-cornered coevolution learning classifier systems for classification tasks 2014 ,		1
11	Integration of Learning Classifier Systems with simultaneous localisation and mapping for autonomous robotics 2012 ,		1
10	Learning classifier systems 2020 ,		1
9	A Game-Theoretic Approach to Model Interruptible Loads: Application to Micro-Grid Planning 2020 ,		1
8	Evolutionary Algorithms for the Multi Criterion Minimum Spanning Tree Problem. <i>Adaptation, Learning, and Optimization</i> , 2010 , 423-452	0.7	1
7	Adapting learning classifier systems to symbolic regression 2016 ,		1
6	An Out-of-distribution Attack Resistance Approach to Emotion Categorization. <i>IEEE Transactions on Artificial Intelligence</i> , 2021 , 1-1	4.7	0
5	Wrapper Feature Construction for Figure-Ground Image Segmentation Using Genetic Programming. <i>Lecture Notes in Computer Science</i> , 2017 , 111-123	0.9	
4	An on-line Pittsburgh LCS for the Three-Cornered Coevolution Framework. <i>Evolutionary Intelligence</i> , 2015 , 8, 185-201	1.7	
3	Balancing Specificity and Generality in a Panmictic-Based Rule-Discovery Learning Classifier System. <i>Lecture Notes in Computer Science</i> , 2003 , 1-19	0.9	
2	Expert System for Taphole Plugging in a Blast Furnace. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2003 , 36, 65-70		
1	Hierarchical Learning Classifier Systems for Polymorphism in Heterogeneous Niches. <i>Lecture Notes in Computer Science</i> , 2018 , 397-409	0.9	