## Will N Browne

## 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.

119	2,862	18	51
papers	citations	h-index	g-index
152	3,557 ext. citations	3.7	5.79
ext. papers		avg, IF	L-index

#	Paper	IF	Citations
119	LDy-flight moth-flame optimisation algorithm-based micro-grid equipment sizing: An integrated investment and operational planning approach. <i>Energy and AI</i> , <b>2021</b> , 3, 100047	12.6	7
118	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> , <b>2021</b> , 287, 11656	3 <sup>10.7</sup>	6
117	Learning Optimality Theory for Accuracy-Based Learning Classifier Systems. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2021</b> , 25, 61-74	15.6	5
116	Frames-of-Reference based Learning: Overcoming Perceptual Aliasing in Multi-Step Decision Making Tasks. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2021</b> , 1-1	15.6	2
115	A Comparison of Learning Classifier SystemsIRule Compaction Algorithms for Knowledge Visualization. <i>ACM Transactions on Evolutionary Learning</i> , <b>2021</b> , 1, 1-38		2
114	Modelling utility-aggregator-customer interactions in interruptible load programmes using non-cooperative game theory. <i>International Journal of Electrical Power and Energy Systems</i> , <b>2021</b> , 133, 107183	5.1	4
113	Lateralized Approach for Robustness Against Attacks in Emotion Categorization from Images. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 469-485	0.9	2
112	An Out-of-distribution Attack Resistance Approach to Emotion Categorization. <i>IEEE Transactions on Artificial Intelligence</i> , <b>2021</b> , 1-1	4.7	0
111	Automated Coordination Strategy Design Using Genetic Programming for Dynamic Multipoint Dynamic Aggregation. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , PP,	10.2	2
110	Learning classifier systems <b>2020</b> ,		1
109	Absumption and subsumption based learning classifier systems <b>2020</b> ,		2
108	Lateralized learning for robustness against adversarial attacks in a visual classification system 2020,		3
107	A Game-Theoretic Approach to Model Interruptible Loads: Application to Micro-Grid Planning <b>2020</b> ,		1
106	Emotion Categorization from Video-Frame Images Using a Novel Sequential Voting Technique. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 618-632	0.9	2
105	2020,		5
104	A Memetic Algorithm for the Task Allocation Problem on Multi-robot Multi-point Dynamic Aggregation Missions <b>2020</b> ,		2
103	XCS with Combined Reward Method (XCSCR) for Policy Search in Multistep Problems 2019,		1

102	How XCS can prevent misdistinguishing rule accuracy <b>2019</b> ,		3
101	Utility function generated saccade strategies for robot active vision: a probabilistic approach. <i>Autonomous Robots</i> , <b>2019</b> , 43, 947-966	3	1
100	Online Feature-Generation of Code Fragments for XCS to Guide Feature Construction 2019,		3
99	Improvement of code fragment fitness to guide feature construction in XCS 2019,		1
98	Absumption to complement subsumption in learning classifier systems 2019,		11
97	Identifying Simple Shapes to Classify the Big Picture <b>2019</b> ,		4
96	Figure-ground image segmentation using feature-based multi-objective genetic programming techniques. <i>Neural Computing and Applications</i> , <b>2019</b> , 31, 3075-3094	4.8	5
95	Theoretical adaptation of multiple rule-generation in XCS 2018,		6
94	Adapting Bagging and Boosting to Learning Classifier Systems. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 405-420	0.9	4
93	Hierarchical Learning Classifier Systems for Polymorphism in Heterogeneous Niches. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 397-409	0.9	
92	Wrapper Feature Construction for Figure-Ground Image Segmentation Using Genetic Programming. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 111-123	0.9	
91	Image feature selection using genetic programming for figure-ground segmentation. <i>Engineering Applications of Artificial Intelligence</i> , <b>2017</b> , 62, 96-108	7.2	22
90	Extending XCS with Cyclic Graphs for Scalability on Complex Boolean Problems. <i>Evolutionary Computation</i> , <b>2017</b> , 25, 173-204	4.3	8
89	Learned Action SLAM: Sharing SLAM through learned path planning information between heterogeneous robotic platforms. <i>Applied Soft Computing Journal</i> , <b>2017</b> , 50, 313-326	7.5	7
88	Genetic programming for evolving figure-ground segmentors from multiple features. <i>Applied Soft Computing Journal</i> , <b>2017</b> , 51, 83-95	7.5	17
87	Learning figure-ground image segmentors by genetic programming 2017,		3
86	Introduction to Learning Classifier Systems. SpringerBriefs in Intelligent Systems, 2017,	0.2	33
85	Theoretical XCS parameter settings of learning accurate classifiers 2017,		21

84	Feature Construction Using Genetic Programming for Figure-Ground Image Segmentation. <i>Proceedings in Adaptation, Learning and Optimization</i> , <b>2017</b> , 237-250	0.2	3
83	Visualisation and Optimisation of Learning Classifier Systems for Multiple Domain Learning. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 448-461	0.9	7
82	SILVEREYE The Implementation of Particle Swarm Optimization Algorithm in a Design Optimization Tool. <i>Communications in Computer and Information Science</i> , <b>2017</b> , 151-169	0.3	10
81	Salient object detection via spectral matting. <i>Pattern Recognition</i> , <b>2016</b> , 51, 209-224	7.7	11
8o	Feature Quality-Based Dynamic Feature Selection for Improving Salient Object Detection. <i>IEEE Transactions on Image Processing</i> , <b>2016</b> , 25, 4298-4313	8.7	9
79	. IEEE Transactions on Evolutionary Computation, <b>2016</b> , 20, 606-626	15.6	776
78	Multi-objective Genetic Programming for Figure-Ground Image Segmentation. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 134-146	0.9	5
77	Human-inspired Scaling in Learning Classifier Systems <b>2016</b> ,		11
76	Compaction for Code Fragment Based Learning Classifier Systems. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 41-53	0.9	4
75	Figure-ground image segmentation using genetic programming and feature selection 2016,		4
74	A comprehensive strategy for mammogram image classification using learning classifier systems <b>2016</b> ,		3
73	Adapting learning classifier systems to symbolic regression 2016,		1
72	Integration of code-fragment based learning classifier systems for multiple domain perception and learning <b>2016</b> ,		3
71	Learning feature fusion strategies for various image types to detect salient objects. <i>Pattern Recognition</i> , <b>2016</b> , 60, 106-120	7.7	17
70	Introducing Rule-based Machine Learning <b>2015</b> ,		1
69	How should learning classifier systems cover a state-action space? 2015,		2
68	Improving genetic search in XCS-based classifier systems through understanding the evolvability of classifier rules. <i>Soft Computing</i> , <b>2015</b> , 19, 1863-1880	3.5	7
67	Accurate marker based distance measurement with single camera <b>2015</b> ,		3

## (2013-2015)

66	An on-line Pittsburgh LCS for the Three-Cornered Coevolution Framework. <i>Evolutionary Intelligence</i> , <b>2015</b> , 8, 185-201	1.7	
65	A Comprehensive Comparison on Evolutionary Feature Selection Approaches to Classification. <i>International Journal of Computational Intelligence and Applications</i> , <b>2015</b> , 14, 1550008	1.2	40
64	2015,		6
63	A Supervised Figure-Ground Segmentation Method Using Genetic Programming. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 491-503	0.9	7
62	Particle swarm optimisation for feature selection in classification: Novel initialisation and updating mechanisms. <i>Applied Soft Computing Journal</i> , <b>2014</b> , 18, 261-276	7.5	334
61	Salient object detection using learning classifiersystems that compute action mappings 2014,		12
60	Reusing Building Blocks of Extracted Knowledge to Solve Complex, Large-Scale Boolean Problems. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2014</b> , 18, 465-480	15.6	90
59	Image Segmentation: A Survey of Methods Based on Evolutionary Computation. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 847-859	0.9	9
58	Human-interpretable feature pattern classification system using learning classifier systems. <i>Evolutionary Computation</i> , <b>2014</b> , 22, 629-50	4.3	4
57	Reusing learned functionality in XCS <b>2014</b> ,		8
56	Three-cornered coevolution learning classifier systems for classification tasks 2014,		1
55	BINARY PSO AND ROUGH SET THEORY FOR FEATURE SELECTION: A MULTI-OBJECTIVE FILTER BASED APPROACH. <i>International Journal of Computational Intelligence and Applications</i> , <b>2014</b> , 13, 1450	10 <u>0</u> 9	43
54	Genetic algorithms based feature combination for salient object detection, for autonomously identified image domain types <b>2014</b> ,		4
53	Reusing Learned Functionality to Address Complex Boolean Functions. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 383-394	0.9	6
52	Particle swarm optimization for feature selection in classification: a multi-objective approach. <i>IEEE Transactions on Cybernetics</i> , <b>2013</b> , 43, 1656-71	10.2	716
51	Evolving optimum populations with XCS classifier systems. <i>Soft Computing</i> , <b>2013</b> , 17, 503-518	3.5	26
50	Learning complex, overlapping and niche imbalance Boolean problems using XCS-based classifier systems. <i>Evolutionary Intelligence</i> , <b>2013</b> , 6, 73-91	1.7	11
49	Adaptive artificial datasets through learning classifier systems for classification tasks. <i>Evolutionary Intelligence</i> , <b>2013</b> , 6, 93-107	1.7	2

48	Steps to increase student engagement and retention in first year engineering 2013,		5
47	PSO for feature construction and binary classification <b>2013</b> ,		9
46	Optimizing visual attention models for predicting human fixations using Genetic Algorithms 2013,		3
45	Combining object-based local and global feature statistics for salient object search 2013,		4
44	Learning overlapping natured and niche imbalance boolean problems using XCS classifier systems <b>2013</b> ,		11
43	Extending learning classifier system with cyclic graphs for scalability on complex, large-scale boolean problems <b>2013</b> ,		21
42	Adaptive artificial datasets through learning classifier systems for classification tasks 2013,		2
41	Comparison of two methods for computing action values in XCS with code-fragment actions 2013,		4
40	MULTI-OBJECTIVE EVOLUTIONARY ALGORITHMS FOR FILTER BASED FEATURE SELECTION IN CLASSIFICATION. <i>International Journal on Artificial Intelligence Tools</i> , <b>2013</b> , 22, 1350024	0.9	40
39	Novel Initialisation and Updating Mechanisms in PSO for Feature Selection in Classification. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 428-438	0.9	23
38	Prediction of success in engineering study <b>2012</b> ,		6
37	Integration of Learning Classifier Systems with simultaneous localisation and mapping for autonomous robotics <b>2012</b> ,		1
36	Multi-objective particle swarm optimisation (PSO) for feature selection 2012,		45
35	Extracting and using building blocks of knowledge in learning classifier systems 2012,		19
34	Two-cornered learning classifier systems for pattern generation and classification 2012,		4
33	New fitness functions in binary particle swarm optimisation for feature selection 2012,		6
32	A multi-objective particle swarm optimisation for filter-based feature selection in classification problems. <i>Connection Science</i> , <b>2012</b> , 24, 91-116	2.8	77
31	XCS-based versus UCS-based feature pattern classification system <b>2012</b> ,		4

30	XCSR with Computed Continuous Action. Lecture Notes in Computer Science, 2012, 350-361	0.9	19
29	Confusion matrices for improving performance of feature pattern classifier systems 2011,		2
28	Automatically defined functions for learning classifier systems 2011,		8
27	Transparent, Online Image Pattern Classification Using a Learning Classifier System. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 183-193	0.9	7
26	Memory-Based Cognitive Framework: A Low-Level Association Approach to Cognitive Architectures. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 402-409	0.9	4
25	Evolution of aesthetically pleasing images without human-in-the-loop 2010,		8
24	New crossover operators in linear genetic programming for multiclass object classification 2010,		4
23	Particle swarm optimisation for outlier detection <b>2010</b> ,		11
22	Using unrestricted loops in genetic programming for image classification 2010,		12
21	Engaging Robots: Innovative Outreach for Attracting Cybernetics Students. <i>IEEE Transactions on Education</i> , <b>2010</b> , 53, 105-113	2.1	11
20	Sampling Methods in Genetic Programming for Classification with Unbalanced Data. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 273-282	0.9	8
19	Evolutionary Algorithms for the Multi Criterion Minimum Spanning Tree Problem. <i>Adaptation, Learning, and Optimization</i> , <b>2010</b> , 423-452	0.7	1
18	Extending evolutionary algorithms to discover tri-criterion and non-supported solutions for the minimum spanning tree problem <b>2009</b> ,		2
17	EMOTIONAL COGNITIVE STEPS TOWARDS CONSCIOUSNESS. <i>International Journal of Machine Consciousness</i> , <b>2009</b> , 01, 203-211		2
16	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> , <b>2009</b> , 16, 17-18	3.4	4
15	Consumer Robotic Products. IEEE Robotics and Automation Magazine, 2008, 15, 71-79	3.4	2
14	A Hybridised Evolutionary Algorithm for Multi-Criterion Minimum Spanning Tree Problems 2008,		3
13	Investigating Scaling of an Abstracted LCS Utilising Ternary and S-Expression Alphabets. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 46-56	0.9	3

12	The Role of Algorithms in Profiling <b>2008</b> , 65-87		7
11	Investigating scaling of an abstracted LCS utilising ternary and s-expression alphabets 2007,		9
10	A Knowledge-Based Evolution Strategy for the Multi-Objective Minimum Spanning Tree Problem <b>2006</b> ,		2
9	Knowledge-elicitation and data-mining: Fusing human and industrial plant information. <i>Engineering Applications of Artificial Intelligence</i> , <b>2006</b> , 19, 345-359	7.2	8
8	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> , <b>2005</b> , 15, 615-628	3.9	10
7	An abstraction agorithm for genetics-based reinforcement learning 2005,		5
6	An autonomous explore/exploit strategy <b>2005</b> ,		5
6 5	An autonomous explore/exploit strategy 2005,  Balancing Specificity and Generality in a Panmictic-Based Rule-Discovery Learning Classifier System.  Lecture Notes in Computer Science, 2003, 1-19	0.9	5
	Balancing Specificity and Generality in a Panmictic-Based Rule-Discovery Learning Classifier System.	0.9	5
5	Balancing Specificity and Generality in a Panmictic-Based Rule-Discovery Learning Classifier System.  Lecture Notes in Computer Science, 2003, 1-19  Expert System for Taphole Plugging in a Blast Furnace. IFAC Postprint Volumes IPPV / International	0.9 7.2	3
5	Balancing Specificity and Generality in a Panmictic-Based Rule-Discovery Learning Classifier System.  Lecture Notes in Computer Science, 2003, 1-19  Expert System for Taphole Plugging in a Blast Furnace. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 65-70  An industrial Learning Classifier System: the importance of pre-processing real data and choice of		