Anthony Brabazon

List of Publications by Year
in descending order

61 papers	1,045 citations	471509 17 h-index	477307 29 g-index
63 all docs	63 docs citations	63 times ranked	719 citing authors

#	Article	IF	Citations
1	Foundations in Grammatical Evolution for Dynamic Environments. Studies in Computational Intelligence, 2009, , .	0.9	107
2	Grammatical Swarm: The generation of programs by social programming. Natural Computing, 2006, 5, 443-462.	3.0	74
3	Natural Computing Algorithms. Natural Computing Series, 2015, , .	2.2	68
4	An Introduction to Evolutionary Computation in Finance. IEEE Computational Intelligence Magazine, 2008, 3, 42-55.	3.2	59
5	Evolutionary Behavior Tree Approaches for Navigating Platform Games. IEEE Transactions on Games, 2017, 9, 227-238.	1.4	44
6	Evolving technical trading rules for spot foreign-exchange markets using grammatical evolution. Computational Management Science, 2004, 1, 311-327.	1.3	42
7	Neutrality in evolutionary algorithms… What do we know?. Evolving Systems, 2011, 2, 145-163.	3.9	42
8	A hybrid genetic model for the prediction of corporate failure. Computational Management Science, 2004, 1, 293-310.	1.3	40
9	Defining locality as a problem difficulty measure in genetic programming. Genetic Programming and Evolvable Machines, 2011, 12, 365-401.	2.2	35
10	Genotype representations in grammatical evolution. Applied Soft Computing Journal, 2010, 10, 36-43.	7.2	34
11	Evolving parametric aircraft models for design exploration and optimisation. Neurocomputing, 2014, 142, 39-47.	5.9	34
12	The raven roosting optimisation algorithm. Soft Computing, 2016, 20, 525-545.	3.6	34
13	Evolutionary design using grammatical evolution and shape grammars: designing a shelter. International Journal of Design Engineering, 2010, 3, 4.	0.3	29
14	Constant creation in grammatical evolution. International Journal of Innovative Computing and Applications, 2007, 1, 23.	0.2	26
15	Towards an understanding of locality in genetic programming. , 2010, , .		25
16	Shape grammars and grammatical evolution for evolutionary design. , 2009, , .		23
17	A Survey of Statistical Machine Learning Elements in Genetic Programming. IEEE Transactions on Evolutionary Computation, 2019, 23, 1029-1048.	10.0	22
18	Applications of genetic programming to finance and economics: past, present, future. Genetic Programming and Evolvable Machines, 2020, 21, 33-53.	2.2	22

#	ARTICLE	IF	CITATIONS
19	Grammatical Swarm. Lecture Notes in Computer Science, 2004, , 163-174.	1.3	19
20	An Analysis of the Behaviour of Mutation in Grammatical Evolution. Lecture Notes in Computer Science, 2010, , 14-25.	1.3	19
21	Adaptive genetic programming for option pricing. , 2007, , .		18
22	Structural and nodal mutation in grammatical evolution. , 2009, , .		18
23	Controlling Overfitting in Symbolic Regression Based on a Bias/Variance Error Decomposition. Lecture Notes in Computer Science, 2012, , 438-447.	1.3	16
24	An agent-based modeling approach to study price impact. , 2012, , .		16
25	Self-organising swarm (SOSwarm). Soft Computing, 2008, 12, 1073-1080.	3.6	14
26	Business analytics capability, organisational value and competitive advantage. Journal of Business Analytics, 2019, 2, 160-173.	2.7	14
27	Defining locality in genetic programming to predict performance. , 2010, , .		13
28	Maximum Margin Decision Surfaces for Increased Generalisation in Evolutionary Decision Tree Learning. Lecture Notes in Computer Science, 2011, , 61-72.	1.3	12
29	An Analysis of the Performance of Genetic Programming for Realised Volatility Forecasting. Journal of Artificial Intelligence and Soft Computing Research, 2016, 6, 155-172.	4.3	11
30	Feature selection for speaker verification using genetic programming. Evolutionary Intelligence, 2017, 10, 1-21.	3.6	10
31	Regularised gradient boosting for financial time-series modelling. Computational Management Science, 2017, 14, 367-391.	1.3	9
32	Prediction of the Exact Degree of Internal Carotid Artery Stenosis Using an Artificial Neural Network Based on Duplex Velocity Measurements. Annals of Vascular Surgery, 2005, 19, 829-837.	0.9	7
33	Learning environment models in car racing using stateful Genetic Programming. , 2011, , .		7
34	Slime mould foraging: an inspiration for algorithmic design. International Journal of Innovative Computing and Applications, 2020, 11, 30.	0.2	7
35	Geometric Semantic Genetic Programming for Financial Data. Lecture Notes in Computer Science, 2014, , 215-226.	1.3	7
36	ORGANIZATIONAL STRATEGIC ADAPTATION IN THE PRESENCE OF INERTIA. International Journal of Modeling, Simulation, and Scientific Computing, 2005, 08, 497-519.	1.4	6

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37	Self-organizing swarm (SOSwarm) for financial credit-risk assessment. , 2008, , .		6
38	Higher-order functions in aesthetic EC encodings. , 2010, , .		6
39	Early stopping criteria to counteract overfitting in genetic programming. , 2011, , .		5
40	Ensemble Bayesian Model Averaging in Genetic Programming. , 2014, , .		5
41	A methodology for user directed search in evolutionary design. Genetic Programming and Evolvable Machines, 2013, 14, 287-314.	2.2	4
42	Genetic Programming with Memory For Financial Trading. Lecture Notes in Computer Science, 2016, , 19-34.	1.3	4
43	Examining the role of perception, social and private information in honey bee foraging algorithms. International Journal of Innovative Computing and Applications, 2013, 5, 240.	0.2	3
44	Recent Patents on Genetic Programming. Recent Patents on Computer Science, 2009, 2, 43-49.	0.5	3
45	Tracer spectrum: a visualisation method for distributed evolutionary computation. Genetic Programming and Evolvable Machines, 2011, 12, 161-171.	2.2	2
46	Speaker Verification on Unbalanced Data withÂGenetic Programming. Lecture Notes in Computer Science, 2016, , 737-753.	1.3	2
47	Characterising order book evolution using self-organising maps. Evolutionary Intelligence, 2016, 9, 167-179.	3.6	2
48	Mutational Robustness and Structural Complexity in Grammatical Evolution. , 2019, , .		2
49	A genetic programming approach for delta hedging. Genetic Programming and Evolvable Machines, 2019, 20, 67-92.	2.2	2
50	Dynamic High Frequency Trading: A Neuro-Evolutionary Approach. Lecture Notes in Computer Science, 2009, , 233-242.	1.3	2
51	The new â€˜brewâ€™ on the Liffey: How FMC^2 is adding the yeast. Quantitative Finance, 2010, 10, 241-245.	1.7	1
52	Swarm intelligence-based stochastic programming model for dynamic asset allocation. , 2010, , .		1
53	Benchmarking the performance of the real-valued Quantum-inspired Evolutionary Algorithm. , 2008, , .		0
54	Interactive interpolating crossover in grammatical evolution. , 2010, , .		0

#	Article	IF	Citations
55	Optimal patent design: An agent-based approach. , 2012, , .		0
56	An analysis of price impact functions of individual trades on the London Stock Exchange. , 2014, , .		0
57	A genetic programming approach for delta hedging. , 2015, , .		0
58	Foreword: special issue on computational finance and economics. Evolutionary Intelligence, 2016, 9, 111-112.	3.6	0
59	Foraging inspired algorithms: A design perspective. , 2017, , .		0
60	An Exploration of Asocial and Social Learning in the Evolution of Variable-length Structures. , 2021, , .		0
61	Grammatical Evolution in Finance and Economics: A Survey. , 2018, , 263-288.		0