

Nelishia Pillay

List of Publications by Year in descending order

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53
papers

650
citations

759190

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642715

23
g-index

54
all docs

54
docs citations

54
times ranked

374
citing authors

#	ARTICLE	IF	CITATIONS
1	Supplementary-architecture weight-optimization neural networks. Neural Computing and Applications, 2022, 34, 11177-11197.	5.6	3
2	A study of ant-based pheromone spaces for generation constructive hyper-heuristics. Swarm and Evolutionary Computation, 2022, 72, 101095.	8.1	42
3	An application of CNN to classify barchan dunes into asymmetry classes. Aeolian Research, 2022, 56, 100801.	2.7	1
4	Assessing hyper-heuristic performance. Journal of the Operational Research Society, 2021, 72, 2503-2516.	3.4	10
5	An improved grammatical evolution approach for generating perturbative heuristics to solve combinatorial optimization problems. Expert Systems With Applications, 2021, 165, 113853.	7.6	5
6	Genetic programming-based regression for temporal data. Genetic Programming and Evolvable Machines, 2021, 22, 297-324.	2.2	2
7	Global Optimisation through Hyper-Heuristics: Unfolding Population-Based Metaheuristics. Applied Sciences (Switzerland), 2021, 11, 5620.	2.5	8
8	Ant-Based Hyper-Heuristics for the Movie Scene Scheduling Problem. Lecture Notes in Computer Science, 2021, , 342-353.	1.3	3
9	A Comparison of Machine Learning Techniques for Diagnosing Multiple Myeloma. Lecture Notes in Computer Science, 2021, , 483-494.	1.3	1
10	Ant-Based Generation Constructive Hyper-heuristics for the Movie Scene Scheduling Problem. Lecture Notes in Computer Science, 2021, , 109-120.	1.3	1
11	Dynamic Heuristic Set Selection for Cross-Domain Selection Hyper-heuristics. Lecture Notes in Computer Science, 2021, , 33-44.	1.3	1
12	On the Transfer Learning of Genetic Programming Classification Algorithms. Lecture Notes in Computer Science, 2021, , 47-58.	1.3	2
13	Naïve Hyper-heuristic Online Learning to Generate Unfolded Population-based Metaheuristics to Solve Continuous Optimization Problems. , 2021, , .		1
14	The impact of genetic programming in education. Genetic Programming and Evolvable Machines, 2020, 21, 87-97.	2.2	4
15	Towards a Generalised Metaheuristic Model for Continuous Optimisation Problems. Mathematics, 2020, 8, 2046.	2.2	25
16	A Comparative Study of Classifiers for Thumbnail Selection. , 2020, , .		7
17	The General Combinatorial Optimization Problem: Towards Automated Algorithm Design. IEEE Computational Intelligence Magazine, 2020, 15, 14-23.	3.2	28
18	Nonlinear Regression in Dynamic Environments Using Particle Swarm Optimization. Lecture Notes in Computer Science, 2020, , 133-144.	1.3	2

#	ARTICLE	IF	CITATIONS
19	A Structure-Based Partial Solution Search for the Examination Timetabling Problem. , 2019, , .		2
20	A Grammatical Evolution Approach for the Automated Generation of Perturbative Heuristics. , 2019, , .		0
21	Hybrid metaheuristics: An automated approach. Expert Systems With Applications, 2019, 130, 132-144.	7.6	20
22	Automated generation of constructive ordering heuristics for educational timetabling. Annals of Operations Research, 2019, 275, 181-208.	4.1	23
23	Automated Design of Machine Learning and Search Algorithms [Guest Editorial]. IEEE Computational Intelligence Magazine, 2018, 13, 16-17.	3.2	11
24	Comparison of a genetic algorithm to grammatical evolution for automated design of genetic programming classification algorithms. Expert Systems With Applications, 2018, 104, 213-234.	7.6	43
25	An investigation of dynamic fitness measures for genetic programming. Expert Systems With Applications, 2018, 92, 52-72.	7.6	7
26	AI in Engineering and Computer Science Education in Preparation for the 4th Industrial Revolution: A South African Perspective. , 2018, , .		10
27	An Improved Meta-Genetic Algorithm for Hybridizing Metaheuristics. , 2018, , .		4
28	Hyper-Heuristics: Theory and Applications. Natural Computing Series, 2018, , .	2.2	74
29	Evolving dynamic fitness measures for genetic programming. Expert Systems With Applications, 2018, 109, 162-187.	7.6	8
30	Adaptive and Multilevel Metaheuristics. , 2018, , 3-21.		5
31	Automated Design of Genetic Programming Classification Algorithms for Financial Forecasting Using Evolutionary Algorithms. Lecture Notes in Computer Science, 2018, , 201-214.	1.3	1
32	EvoHyp - a Java toolkit for evolutionary algorithm hyper-heuristics. , 2017, , .		10
33	A review of hyper-heuristics for educational timetabling. Annals of Operations Research, 2016, 239, 3-38.	4.1	63
34	Evolving construction heuristics for the curriculum based university course timetabling problem. , 2016, , .		7
35	A study of fitness functions for data classification using grammatical evolution. , 2016, , .		2
36	Evolving Construction Heuristics for the Symmetric Travelling Salesman Problem. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
37	Incorporating chaos into the developmental approach for solving the examination timetabling problem. International Journal of Bio-Inspired Computation, 2016, 8, 355.	0.9	0
38	Evolving game playing strategies for Othello. , 2015, , .		2
39	XHSTT: an XML archive for high school timetabling problems in different countries. Annals of Operations Research, 2014, 218, 295-301.	4.1	43
40	A survey of school timetabling research. Annals of Operations Research, 2014, 218, 261-293.	4.1	77
41	Incorporating adaptive discretization into genetic programming for data classification. , 2013, , .		0
42	A comparison of genetic programming representations for binary data classification. , 2013, , .		2
43	A preliminary study on the reuse of subtrees within decision trees in a genetic programming context for data classification. , 2013, , .		0
44	Automatic programming using genetic programming. , 2013, , .		5
45	A preliminary study into the use of an evolutionary algorithm hyper-heuristic to solve the nurse rostering problem. , 2012, , .		3
46	A comparison of genetic algorithms and genetic programming in solving the school timetabling problem. , 2012, , .		8
47	Learning difficulties experienced by students in a course on formal languages and automata theory. SIGCSE Bulletin, 2010, 41, 48-52.	0.1	16
48	An evolutionary algorithm hyper-heuristic for producing feasible timetables for the curriculum based university course timetabling problem. , 2010, , .		5
49	Using genetic algorithms to solve the South African school timetabling problem. , 2010, , .		4
50	Evolving solutions to the school timetabling problem. , 2009, , .		3
51	A first course in genetic programming. SIGCSE Bulletin, 2004, 36, 93-96.	0.1	2
52	Developing intelligent programming tutors for novice programmers. SIGCSE Bulletin, 2003, 35, 78-82.	0.1	32
53	A Study of Evolutionary Algorithm Selection Hyper-Heuristics for the One-Dimensional Bin-Packing Problem. South African Computer Journal, 0, 48, .	0.2	11