Nantiwat Pholdee

List of Publications by Year in Descending Order

70 papers	1,233 citations	21 h-index	33 g-index
72 ext. papers	1,658 ext. citations	2.9 avg, IF	5.58 L-index

#	Paper	IF	Citations
70	Hybridised differential evolution and equilibrium optimiser with learning parameters for mechanical and aircraft wing design. *Knowledge-Based Systems*, **2022**, 239, 107955	7.3	0
69	Hybrid spotted hyena Nelder-Mead optimization algorithm for selection of optimal machining parameters in grinding operations. *Materialpruefung/Materials Testing*, **2021**, 63, 293-298	1.9	1
68	Conceptual comparison of the ecogeography-based algorithm, equilibrium algorithm, marine predators algorithm and slime mold algorithm for optimal product design. *Materialpruefung/Materials Testing*, **2021**, 63, 336-340	1.9	29
67	Comparision of the political optimization algorithm, the Archimedes optimization algorithm and the Levy flight algorithm for design optimization in industry. *Materialpruefung/Materials Testing*, **2021**, 63, 356-359	1.9	29
66	Multiobjecitve structural optimization using improved heat transfer search. *Knowledge-Based Systems*, **2021**, 219, 106811	7.3	13
65	A novel hybrid marine predators-Nelder-Mead optimization algorithm for the optimal design of engineering problems. *Materialpruefung/Materials Testing*, **2021**, 63, 453-457	1.9	2
64	Multi-Objective Passing Vehicle Search algorithm for structure optimization. *Expert Systems With Applications*, **2021**, 169, 114511	7.8	15
63	A novel hybrid water wave optimization algorithm for solving complex constrained engineering problems. *Materialpruefung/Materials Testing*, **2021**, 63, 560-564	1.9	2
62	Hybrid Taguchi-Levy flight distribution optimization algorithm for solving real-world design optimization problems. *Materialpruefung/Materials Testing*, **2021**, 63, 547-551	1.9	5
61	A simple numerical scheme for generation of weighting factors for multiobjective optimisation. *Soft Computing*, **2021**, 25, 1631-1646	3.5	
60	Hybrid Heat Transfer Search and Passing Vehicle Search optimizer for multi-objective structural optimization. *Knowledge-Based Systems*, **2021**, 212, 106556	7.3	18
59	Kriging Surrogate-Based Genetic Algorithm Optimization for Blade Design of a Horizontal AxisWind Turbine. *CMES - Computer Modeling in Engineering and Sciences*, **2021**, 126, 261-273	1.7	3
58	A Comparative Study of Recent Multi-objective Metaheuristics for Solving Constrained Truss Optimisation Problems. *Archives of Computational Methods in Engineering*, **2021**, 28, 4031-4047	7.8	18
57	Robust design of a robot gripper mechanism using new hybrid grasshopper optimization algorithm. *Expert Systems*, **2021**, 38, e12666	2.1	35
56	Ground Structures-Based Topology Optimization of a Morphing Wing Using a Metaheuristic Algorithm. *Metals*, **2021**, 11, 1311	2.3	3
55	Adaptive boundary sine cosine optimizer with population reduction for robustness analysis of finite time horizon systems. *Applied Soft Computing Journal*, **2021**, 113, 107900	7.5	1
54	Aircraft Control Parameter Estimation Using Self-Adaptive Teaching-Learning-Based Optimization with an Acceptance Probability.. *Computational Intelligence and Neuroscience*, **2021**, 2021, 4740995	3	

53	Surrogate-assisted Meta-Heuristic method for Aerodynamic Design of an Aircraft Wing. *IOP Conference Series: Materials Science and Engineering*, **2020**, 886, 012026	0.4	0
52	Improved metaheuristics through migration-based search and an acceptance probability for truss optimization. *Asian Journal of Civil Engineering*, **2020**, 21, 1217-1237	1.5	9
51	Multiobjective meta-heuristic with iterative parameter distribution estimation for aeroelastic design of an aircraft wing. *Engineering With Computers*, **2020**, 1	4.5	5
50	Multi-objective modified heat transfer search for truss optimization. *Engineering With Computers*, **2020**, 37, 3439	4.5	22
49	Self-adaptive many-objective meta-heuristic based on decomposition for many-objective conceptual design of a fixed wing unmanned aerial vehicle. *Aerospace Science and Technology*, **2020** , 100, 105783	4.9	59
48	The Henry gas solubility optimization algorithm for optimum structural design of automobile brake components. *Materialpruefung/Materials Testing*, **2020**, 62, 261-264	1.9	55
47	Seagull optimization algorithm for solving real-world design optimization problems. *Materialpruefung/Materials Testing*, **2020**, 62, 640-644	1.9	52
46	A novel hybridized metaheuristic technique in enhancing the diagnosis of cross-sectional dent damaged offshore platform members. *Computational Intelligence*, **2020**, 36, 132-150	2.5	3
45	Surrogate-Assisted Reliability Optimisation of an Aircraft Wing with Static and Dynamic Aeroelastic Constraints. *International Journal of Aeronautical and Space Sciences*, **2020**, 21, 723-732	1.2	9
44	Structural optimization using multi-objective modified adaptive symbiotic organisms search. *Expert Systems With Applications*, **2019**, 125, 425-441	7.8	68
43	Simultaneous topology, shape, and size optimization of trusses, taking account of uncertainties using multi-objective evolutionary algorithms. *Engineering With Computers*, **2019**, 35, 721-740	4.5	15
42	Self-adaptive MRPBIL-DE for 6D robot multiobjective trajectory planning. *Expert Systems With Applications*, **2019**, 136, 133-144	7.8	9
41	A new hybrid Harris hawks-Nelder-Mead optimization algorithm for solving design and manufacturing problems. *Materialpruefung/Materials Testing*, **2019**, 61, 735-743	1.9	73
40	Comparison of recent algorithms for many-objective optimisation of an automotive floor-frame. *International Journal of Vehicle Design*, **2019**, 80, 176	2.4	18
39	Automated design of aircraft fuselage stiffeners using multiobjective evolutionary optimisation. *International Journal of Vehicle Design*, **2019**, 80, 162	2.4	23
38	Multi-surrogate-assisted metaheuristics for crashworthiness optimisation. *International Journal of Vehicle Design*, **2019**, 80, 223	2.4	35
37	Inverse problem based differential evolution for efficient structural health monitoring of trusses. *Applied Soft Computing Journal*, **2018**, 66, 462-472	7.5	34
36	Multiobjective adaptive symbiotic organisms search for truss optimization problems. *Knowledge-Based Systems*, **2018**, 161, 398-414	7.3	53

35	Optimal Structural Elements Sizing Using Neural Network and Adaptive Differential Algorithm. *Advances in Business Information Systems and Analytics Book Series*, **2018**, 93-134	0.4	
34	A Comparative Study of Eighteen Self-adaptive Metaheuristic Algorithms for Truss Sizing Optimisation. *KSCE Journal of Civil Engineering*, **2018**, 22, 2982-2993	1.9	11
33	Optimum design of a hand-tractor handlebar through metaheuristic algorithms. *IOP Conference Series: Materials Science and Engineering*, **2018**, 370, 012033	0.4	
32	Solving Inverse Kinematics of Robot Manipulators by Means of Meta-Heuristic Optimisation. *IOP Conference Series: Materials Science and Engineering*, **2018**, 370, 012056	0.4	5
31	Optimisation of flight dynamic control based on many-objectives meta-heuristic: a comparative study. *IOP Conference Series: Materials Science and Engineering*, **2018**, 370, 012038	0.4	
30	Trajectory Planning of a 6D Robot based on Meta Heuristic Algorithms. *MATEC Web of Conferences*, **2018**, 220, 06004	0.3	0
29	Multiobjective Simultaneous Topology, Shape and Sizing Optimization of Trusses Using Evolutionary Optimizers. *IOP Conference Series: Materials Science and Engineering*, **2018**, 370, 012029	0.4	3
28	Optimal U-shaped baffle square-duct heat exchanger through surrogate-assisted self-adaptive differential evolution with neighbourhood search and weighted exploitation-exploration. *Applied Thermal Engineering*, **2017**, 118, 455-463	5.8	15
27	Hybrid real-code population-based incremental learning and differential evolution for many-objective optimisation of an automotive floor-frame. *International Journal of Vehicle Design*, **2017**, 73, 20	2.4	88
26	Optimal reactive power dispatch problem using a two-archive multi-objective grey wolf optimizer. *Expert Systems With Applications*, **2017**, 87, 79-89	7.8	54
25	Meta-Heuristics for Engineering Optimisation - Applications to Metal Forming Processes. *Key Engineering Materials*, **2017**, 751, 145-150	0.4	
24	Estimation of Distribution Algorithm Using Correlation between Binary Elements: A New Binary-Code Metaheuristic. *Mathematical Problems in Engineering*, **2017**, 2017, 1-15	1.1	
23	Adaptive Sine Cosine Algorithm Integrated with Differential Evolution for Structural Damage Detection. *Lecture Notes in Computer Science*, **2017**, 71-86	0.9	13
22	Two-stage surrogate assisted differential evolution for optimization of a non-circular drawing sequence. *International Journal of Precision Engineering and Manufacturing*, **2017**, 18, 567-573	1.7	4
21	Hybrid real-code population-based incremental learning and differential evolution for many-objective optimisation of an automotive floor-frame. *International Journal of Vehicle Design*, **2017**, 73, 20	2.4	10
20	Many-Objective Optimisation of Trusses Through Meta-Heuristics. *Lecture Notes in Computer Science*, **2017**, 143-152	0.9	2
19	Optimal Truss Sizing Using an Adaptive Differential Evolution Algorithm. *Journal of Computing in Civil Engineering*, **2016**, 30, 04015019	5	40
18	Hybrid real-code ant colony optimisation for constrained mechanical design. *International Journal of Systems Science*, **2016**, 47, 474-491	2.3	11

List of Publications

17	Structural health monitoring through meta-heuristics - comparative performance study. *Advances in Computational Design*, **2016**, 1, 315-327		2
16	An Improved Teaching-Learning Based Optimization for Optimization of Flatness of a Strip During a Coiling Process. *Lecture Notes in Computer Science*, **2016**, 12-23	0.9	1
15	Effects of TEOS Precursor and Reaction Time on the Synthesis of Silica Coated Single-Walled Carbon Nanotubes. *Materials Science Forum*, **2016**, 872, 248-252	0.4	
14	Optimization of flatness of strip during coiling process based on evolutionary algorithms. *International Journal of Precision Engineering and Manufacturing*, **2015**, 16, 1493-1499	1.7	8
13	Process optimization of a non-circular drawing sequence based on multi-surrogate assisted meta-heuristic algorithms. *Journal of Mechanical Science and Technology*, **2015**, 29, 3427-3436	1.6	6
12	Efficient hybrid evolutionary algorithm for optimization of a strip coiling process. *Engineering Optimization*, **2015**, 47, 521-532	2	11
11	An efficient optimum Latin hypercube sampling technique based on sequencing optimisation using simulated annealing. *International Journal of Systems Science*, **2015**, 46, 1780-1789	2.3	33
10	Comparative performance of meta-heuristic algorithms for mass minimisation of trusses with dynamic constraints. *Advances in Engineering Software*, **2014**, 75, 1-13	3.6	65
9	Hybrid real-code population-based incremental learning and approximate gradients for multi-objective truss design. *Engineering Optimization*, **2014**, 46, 1032-1051	2	12
8	Hybridisation of real-code population-based incremental learning and differential evolution for multiobjective design of trusses. *Information Sciences*, **2013**, 223, 136-152	7.7	39
7	Performance enhancement of multiobjective evolutionary optimisers for truss design using an approximate gradient. *Computers and Structures*, **2012**, 106-107, 115-124	4.5	23
6	Surrogate-Assisted Evolutionary Optimizers for Multiobjective Design of a Torque Arm Structure. *Applied Mechanics and Materials*, **2011**, 101-102, 324-328	0.3	3
5	Comparative Performance of Twelve Metaheuristics for Wind Farm Layout Optimisation. *Archives of Computational Methods in Engineering*,1	7.8	6
4	Enhanced grasshopper optimization algorithm using elite opposition-based learning for solving real-world engineering problems. *Engineering With Computers*,1	4.5	26
3	A novel chaotic Henry gas solubility optimization algorithm for solving real-world engineering problems. *Engineering With Computers*,1	4.5	15
2	Multi-Objective Teaching-Learning-Based Optimization for Structure Optimization. *Smart Science*,1-12	1.5	3
1	A new chaotic L□y flight distribution optimization algorithm for solving constrained engineering problems. *Expert Systems*,	2.1	6