

# Nantiwat Pholdee

## List of Publications by Year in descending order

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72  
papers

2,234  
citations

201674

27  
h-index

233421

45  
g-index

72  
all docs

72  
docs citations

72  
times ranked

1071  
citing authors

#	ARTICLE	IF	CITATIONS
1	A new hybrid Harris hawks-Nelder-Mead optimization algorithm for solving design and manufacturing problems. <i>Materialpruefung/Materials Testing</i> , 2019, 61, 735-743.	2.2	98
2	Hybrid real-code population-based incremental learning and differential evolution for many-objective optimisation of an automotive floor-frame. <i>International Journal of Vehicle Design</i> , 2017, 73, 20.	0.3	96
3	Structural optimization using multi-objective modified adaptive symbiotic organisms search. <i>Expert Systems With Applications</i> , 2019, 125, 425-441.	7.6	95
4	Enhanced grasshopper optimization algorithm using elite opposition-based learning for solving real-world engineering problems. <i>Engineering With Computers</i> , 2022, 38, 4207-4219.	6.1	94
5	Optimal reactive power dispatch problem using a two-archive multi-objective grey wolf optimizer. <i>Expert Systems With Applications</i> , 2017, 87, 79-89.	7.6	92
6	Seagull optimization algorithm for solving real-world design optimization problems. <i>Materialpruefung/Materials Testing</i> , 2020, 62, 640-644.	2.2	88
7	Comparision of the political optimization algorithm, the Archimedes optimization algorithm and the Levy flight algorithm for design optimization in industry. <i>Materialpruefung/Materials Testing</i> , 2021, 63, 356-359.	2.2	85
8	Comparative performance of meta-heuristic algorithms for mass minimisation of trusses with dynamic constraints. <i>Advances in Engineering Software</i> , 2014, 75, 1-13.	3.8	84
9	Robust design of a robot gripper mechanism using new hybrid grasshopper optimization algorithm. <i>Expert Systems</i> , 2021, 38, e12666.	4.5	83
10	Multiobjective adaptive symbiotic organisms search for truss optimization problems. <i>Knowledge-Based Systems</i> , 2018, 161, 398-414.	7.1	82
11	Multi-surrogate-assisted metaheuristics for crashworthiness optimisation. <i>International Journal of Vehicle Design</i> , 2019, 80, 223.	0.3	80
12	Conceptual comparison of the ecogeography-based algorithm, equilibrium algorithm, marine predators algorithm and slime mold algorithm for optimal product design. <i>Materialpruefung/Materials Testing</i> , 2021, 63, 336-340.	2.2	80
13	Self-adaptive many-objective meta-heuristic based on decomposition for many-objective conceptual design of a fixed wing unmanned aerial vehicle. <i>Aerospace Science and Technology</i> , 2020, 100, 105783.	4.8	79
14	The Henry gas solubility optimization algorithm for optimum structural design of automobile brake components. <i>Materialpruefung/Materials Testing</i> , 2020, 62, 261-264.	2.2	72
15	A Comparative Study of Recent Multi-objective Metaheuristics for Solving Constrained Truss Optimisation Problems. <i>Archives of Computational Methods in Engineering</i> , 2021, 28, 4031-4047.	10.2	61
16	A novel chaotic Henry gas solubility optimization algorithm for solving real-world engineering problems. <i>Engineering With Computers</i> , 2022, 38, 871-883.	6.1	57
17	Optimal Truss Sizing Using an Adaptive Differential Evolution Algorithm. <i>Journal of Computing in Civil Engineering</i> , 2016, 30, .	4.7	56
18	A new chaotic Levy flight distribution optimization algorithm for solving constrained engineering problems. <i>Expert Systems</i> , 2022, 39, .	4.5	53

#	ARTICLE	IF	CITATIONS
19	Hybridisation of real-code population-based incremental learning and differential evolution for multiobjective design of trusses. <i>Information Sciences</i> , 2013, 223, 136-152.	6.9	51
20	An efficient optimum Latin hypercube sampling technique based on sequencing optimisation using simulated annealing. <i>International Journal of Systems Science</i> , 2015, 46, 1780-1789.	5.5	50
21	Inverse problem based differential evolution for efficient structural health monitoring of trusses. <i>Applied Soft Computing Journal</i> , 2018, 66, 462-472.	7.2	44
22	Multi-objective modified heat transfer search for truss optimization. <i>Engineering With Computers</i> , 2021, 37, 3439-3454.	6.1	43
23	Hybrid Heat Transfer Search and Passing Vehicle Search optimizer for multi-objective structural optimization. <i>Knowledge-Based Systems</i> , 2021, 212, 106556.	7.1	43
24	Comparative Performance of Twelve Metaheuristics for Wind Farm Layout Optimisation. <i>Archives of Computational Methods in Engineering</i> , 2022, 29, 717-730.	10.2	42
25	Multi-Objective Passing Vehicle Search algorithm for structure optimization. <i>Expert Systems With Applications</i> , 2021, 169, 114511.	7.6	41
26	Simultaneous topology, shape, and size optimization of trusses, taking account of uncertainties using multi-objective evolutionary algorithms. <i>Engineering With Computers</i> , 2019, 35, 721-740.	6.1	30
27	Automated design of aircraft fuselage stiffeners using multiobjective evolutionary optimisation. <i>International Journal of Vehicle Design</i> , 2019, 80, 162.	0.3	28
28	Hybrid real-code population-based incremental learning and differential evolution for many-objective optimisation of an automotive floor-frame. <i>International Journal of Vehicle Design</i> , 2017, 73, 20.	0.3	27
29	Performance enhancement of multiobjective evolutionary optimisers for truss design using an approximate gradient. <i>Computers and Structures</i> , 2012, 106-107, 115-124.	4.4	26
30	Multiobjective structural optimization using improved heat transfer search. <i>Knowledge-Based Systems</i> , 2021, 219, 106811.	7.1	26
31	Multi-Objective Teaching-Learning-Based Optimization for Structure Optimization. <i>Smart Science</i> , 2022, 10, 56-67.	3.2	25
32	Improved metaheuristics through migration-based search and an acceptance probability for truss optimization. <i>Asian Journal of Civil Engineering</i> , 2020, 21, 1217-1237.	1.6	24
33	Performance enhancement of meta-heuristics through random mutation and simulated annealing-based selection for concurrent topology and sizing optimization of truss structures. <i>Soft Computing</i> , 2022, 26, 5661-5683.	3.6	23
34	Optimal U-shaped baffle square-duct heat exchanger through surrogate-assisted self-adaptive differential evolution with neighbourhood search and weighted exploitation-exploration. <i>Applied Thermal Engineering</i> , 2017, 118, 455-463.	6.0	21
35	Adaptive Sine Cosine Algorithm Integrated with Differential Evolution for Structural Damage Detection. <i>Lecture Notes in Computer Science</i> , 2017, , 71-86.	1.3	19
36	Comparison of recent algorithms for many-objective optimisation of an automotive floor-frame. <i>International Journal of Vehicle Design</i> , 2019, 80, 176.	0.3	19

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37	Self-adaptive MRPBIL-DE for 6D robot multiobjective trajectory planning. <i>Expert Systems With Applications</i> , 2019, 136, 133-144.	7.6	18
38	Surrogate-Assisted Reliability Optimisation of an Aircraft Wing with Static and Dynamic Aeroelastic Constraints. <i>International Journal of Aeronautical and Space Sciences</i> , 2020, 21, 723-732.	2.0	17
39	A Comparative Study of Eighteen Self-adaptive Metaheuristic Algorithms for Truss Sizing Optimisation. <i>KSCE Journal of Civil Engineering</i> , 2018, 22, 2982-2993.	1.9	15
40	Multiobjective meta-heuristic with iterative parameter distribution estimation for aeroelastic design of an aircraft wing. <i>Engineering With Computers</i> , 2022, 38, 695-713.	6.1	14
41	Ground Structures-Based Topology Optimization of a Morphing Wing Using a Metaheuristic Algorithm. <i>Metals</i> , 2021, 11, 1311.	2.3	14
42	Hybrid real-code population-based incremental learning and approximate gradients for multi-objective truss design. <i>Engineering Optimization</i> , 2014, 46, 1032-1051.	2.6	13
43	Hybrid Taguchi-Lévy flight distribution optimization algorithm for solving real-world design optimization problems. <i>Materialpruefung/Materials Testing</i> , 2021, 63, 547-551.	2.2	13
44	Efficient hybrid evolutionary algorithm for optimization of a strip coiling process. <i>Engineering Optimization</i> , 2015, 47, 521-532.	2.6	12
45	Hybrid real-code ant colony optimisation for constrained mechanical design. <i>International Journal of Systems Science</i> , 2016, 47, 474-491.	5.5	12
46	A novel hybrid marine predators-Nelder-Mead optimization algorithm for the optimal design of engineering problems. <i>Materialpruefung/Materials Testing</i> , 2021, 63, 453-457.	2.2	11
47	Optimization of flatness of strip during coiling process based on evolutionary algorithms. <i>International Journal of Precision Engineering and Manufacturing</i> , 2015, 16, 1493-1499.	2.2	9
48	Process optimization of a non-circular drawing sequence based on multi-surrogate assisted meta-heuristic algorithms. <i>Journal of Mechanical Science and Technology</i> , 2015, 29, 3427-3436.	1.5	8
49	Hybridised differential evolution and equilibrium optimiser with learning parameters for mechanical and aircraft wing design. <i>Knowledge-Based Systems</i> , 2022, 239, 107955.	7.1	7
50	Two-stage surrogate assisted differential evolution for optimization of a non-circular drawing sequence. <i>International Journal of Precision Engineering and Manufacturing</i> , 2017, 18, 567-573.	2.2	6
51	Solving Inverse Kinematics of Robot Manipulators by Means of Meta-Heuristic Optimisation. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 370, 012056.	0.6	6
52	Structural health monitoring through meta-heuristics - comparative performance study. <i>Advances in Computational Design</i> , 2016, 1, 315-327.	0.3	6
53	Trajectory Planning of a 6D Robot based on Meta Heuristic Algorithms. <i>MATEC Web of Conferences</i> , 2018, 220, 06004.	0.2	5
54	Kriging Surrogate-Based Genetic Algorithm Optimization for Blade Design of a Horizontal Axis Wind Turbine. <i>CMES - Computer Modeling in Engineering and Sciences</i> , 2021, 126, 261-273.	1.1	5

#	ARTICLE	IF	CITATIONS
55	Multiobjective Simultaneous Topology, Shape and Sizing Optimization of Trusses Using Evolutionary Optimizers. IOP Conference Series: Materials Science and Engineering, 2018, 370, 012029.	0.6	4
56	A novel hybrid water wave optimization algorithm for solving complex constrained engineering problems. Materialpruefung/Materials Testing, 2021, 63, 560-564.	2.2	4
57	Many-Objective Optimisation of Trusses Through Meta-Heuristics. Lecture Notes in Computer Science, 2017, , 143-152.	1.3	4
58	Surrogate-Assisted Evolutionary Optimizers for Multiobjective Design of a Torque Arm Structure. Applied Mechanics and Materials, 2011, 101-102, 324-328.	0.2	3
59	A novel hybridized metaheuristic technique in enhancing the diagnosis of cross-sectional dent damaged offshore platform members. Computational Intelligence, 2020, 36, 132-150.	3.2	3
60	Adaptive boundary sine cosine optimizer with population reduction for robustness analysis of finite time horizon systems. Applied Soft Computing Journal, 2021, 113, 107900.	7.2	2
61	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.	1.3	2
62	Effects of TEOS Precursor and Reaction Time on the Synthesis of Silica Coated Single-Walled Carbon Nanotubes. Materials Science Forum, 0, 872, 248-252.	0.3	1
63	Optimum design of a hand-tractor handlebar through metaheuristic algorithms. IOP Conference Series: Materials Science and Engineering, 2018, 370, 012033.	0.6	1
64	Surrogate-assisted Meta-Heuristic method for Aerodynamic Design of an Aircraft Wing. IOP Conference Series: Materials Science and Engineering, 2020, 886, 012026.	0.6	1
65	Hybrid spotted hyena "Nelder-Mead optimization algorithm for selection of optimal machining parameters in grinding operations. Materialpruefung/Materials Testing, 2021, 63, 293-298.	2.2	1
66	Meta-Heuristics for Engineering Optimisation - Applications to Metal Forming Processes. Key Engineering Materials, 0, 751, 145-150.	0.4	0
67	Estimation of Distribution Algorithm Using Correlation between Binary Elements: A New Binary-Code Metaheuristic. Mathematical Problems in Engineering, 2017, 2017, 1-15.	1.1	0
68	Optimisation of flight dynamic control based on many-objectives meta-heuristic: a comparative study. IOP Conference Series: Materials Science and Engineering, 2018, 370, 012038.	0.6	0
69	Multiobjective Trajectory Planning of a 6D Robot based on Multiobjective Meta Heuristic Search. , 2018, , .		0
70	A simple numerical scheme for generation of weighting factors for multiobjective optimisation. Soft Computing, 2021, 25, 1631-1646.	3.6	0
71	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	0
72	Aircraft Control Parameter Estimation Using Self-Adaptive Teaching-Learning-Based Optimization with an Acceptance Probability. Computational Intelligence and Neuroscience, 2021, 2021, 1-12.	1.7	0