# Sujin Bureerat

List of Publications by Year
in descending order



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|---|---|---|---|
| 117 papers | 3,395 citations | 109137 35 h-index | 174990 52 g-index |
| 117 all docs | 117 docs citations | 117 times ranked | 1666 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A novel hybrid Harris hawks-simulated annealing algorithm and RBF-based metamodel for design optimization of highway guardrails. Materialpruefung/Materials Testing, 2020, 62, 251-260. | 0.8 | 107 |
| 2 | A new hybrid Harris hawks-Nelder-Mead optimization algorithm for solving design and manufacturing problems. Materialpruefung/Materials Testing, 2019, 61, 735-743. | 0.8 | 98 |
| 3 | 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. | 0.1 | 96 |
| 4 | Structural optimization using multi-objective modified adaptive symbiotic organisms search. Expert Systems With Applications, 2019, 125, 425-441. | 4.4 | 95 |
| 5 | Enhanced grasshopper optimization algorithm using elite opposition-based learning for solving real-world engineering problems. Engineering With Computers, 2022, 38, 4207-4219. | 3.5 | 94 |
| 6 | Optimal reactive power dispatch problem using a two-archive multi-objective grey wolf optimizer. Expert Systems With Applications, 2017, 87, 79-89. | 4.4 | 92 |
| 7 | Seagull optimization algorithm for solving real-world design optimization problems. Materialpruefung/Materials Testing, 2020, 62, 640-644. | 0.8 | 88 |
| 8 | 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. | 0.8 | 85 |
| 9 | Comparative performance of meta-heuristic algorithms for mass minimisation of trusses with dynamic constraints. Advances in Engineering Software, 2014, 75, 1-13. | 1.8 | 84 |
| 10 | Robust design of a robot gripper mechanism using new hybrid grasshopper optimization algorithm. Expert Systems, 2021, 38, e12666. | 2.9 | 83 |
| 11 | Multiobjective adaptive symbiotic organisms search for truss optimization problems. Knowledge-Based Systems, 2018, 161, 398-414. | 4.0 | 82 |
| 12 | Multi-surrogate-assisted metaheuristics for crashworthiness optimisation. International Journal of Vehicle Design, 2019, 80, 223. | 0.1 | 80 |
| 13 | 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. | 0.8 | 80 |
| 14 | 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. | 2.5 | 79 |
| 15 | Multi-objective topology optimization using evolutionary algorithms. Engineering Optimization, 2011, 43, 541-557. | 1.5 | 78 |
| 16 | The Henry gas solubility optimization algorithm for optimum structural design of automobile brake components. Materialpruefung/Materials Testing, 2020, 62, 261-264. | 0.8 | 72 |
| 17 | Butterfly optimization algorithm for optimum shape design of automobile suspension components. Materialpruefung/Materials Testing, 2020, 62, 365-370. | 0.8 | 69 |
| 18 | Simultaneous topology, shape and sizing optimisation of a three-dimensional slender truss tower using multiobjective evolutionary algorithms. Computers and Structures, 2011, 89, 2531-2538. | 2.4 | 66 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | A Comparative Study of Recent Multi-objective Metaheuristics for Solving Constrained Truss Optimisation Problems. Archives of Computational Methods in Engineering, 2021, 28, 4031-4047. | 6.0 | 61 |
| 20 | A novel chaotic Henry gas solubility optimization algorithm forÂsolvingÂreal-world engineering problems. Engineering With Computers, 2022, 38, 871-883. | 3.5 | 57 |
| 21 | Optimal Truss Sizing Using an Adaptive Differential Evolution Algorithm. Journal of Computing in Civil Engineering, 2016, 30, . | 2.5 | 56 |
| 22 | Truss topology, shape and sizing optimization by fully stressed design based on hybrid grey wolf optimization and adaptive differential evolution. Engineering Optimization, 2018, 50, 1645-1661. | 1.5 | 55 |
| 23 | A new chaotic LÃ©vy flight distribution optimization algorithm for solving constrained engineering problems. Expert Systems, 2022, 39, . | 2.9 | 53 |
| 24 | Hybridisation of real-code population-based incremental learning and differential evolution for multiobjective design of trusses. Information Sciences, 2013, 223, 136-152. | 4.0 | 51 |
| 25 | An efficient optimum Latin hypercube sampling technique based on sequencing optimisation using simulated annealing. International Journal of Systems Science, 2015, 46, 1780-1789. | 3.7 | 50 |
| 26 | Four-bar linkage path generation through self-adaptive population size teaching-learning based optimization. Knowledge-Based Systems, 2017, 135, 180-191. | 4.0 | 48 |
| 27 | Structural topology optimisation using simulated annealing with multiresolution design variables. Finite Elements in Analysis and Design, 2008, 44, 738-747. | 1.7 | 45 |
| 28 | Inverse problem based differential evolution for efficient structural health monitoring of trusses. Applied Soft Computing Journal, 2018, 66, 462-472. | 4.1 | 44 |
| 29 | Topology and Size Optimization of Trusses with Static and Dynamic Bounds by Modified Symbiotic Organisms Search. Journal of Computing in Civil Engineering, 2018, 32, . | 2.5 | 44 |
| 30 | Topology optimization of truss subjected to static and dynamic constraints by integrating simulated annealing into passing vehicle search algorithms. Engineering With Computers, 2019, 35, 499-517. | 3.5 | 43 |
| 31 | Multi-objective modified heat transfer search for truss optimization. Engineering With Computers, 2021, 37, 3439-3454. | 3.5 | 43 |
| 32 | Hybrid Heat Transfer Search and Passing Vehicle Search optimizer for multi-objective structural optimization. Knowledge-Based Systems, 2021, 212, 106556. | 4.0 | 43 |
| 33 | Comparative Performance of Twelve Metaheuristics for Wind Farm Layout Optimisation. Archives of Computational Methods in Engineering, 2022, 29, 717-730. | 6.0 | 42 |
| 34 | Population-Based Incremental Learning for Multiobjective Optimisation. , 2007, , 223-232. | | 42 |
| 35 | Performance enhancement of evolutionary search for structural topology optimisation. Finite Elements in Analysis and Design, 2006, 42, 547-566. | 1.7 | 41 |
| 36 | Multi-Objective Passing Vehicle Search algorithm for structure optimization. Expert Systems With Applications, 2021, 169, 114511. | 4.4 | 41 |

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|---|---|---|---|
| 37 | Comparison of the arithmetic optimization algorithm, the slime mold optimization algorithm, the marine predators algorithm, the salp swarm algorithm for real-world engineering applications. Materialpruefung/Materials Testing, 2021, 63, 448-452. | 0.8 | 37 |
| 38 | Geometrical Design of Plate-Fin Heat Sinks Using Hybridization of MOEA and RSM. IEEE Transactions on Components and Packaging Technologies, 2008, 31, 351-360. | 1.4 | 36 |
| 39 | An Artificial Neural Network for Detection of Simulated Dental Caries. International Journal of Computer Assisted Radiology and Surgery, 2006, 1, 91-96. | 1.7 | 33 |
| 40 | A novel self-adaptive hybrid multi-objective meta-heuristic for reliability design of trusses with simultaneous topology, shape and sizing optimisation design variables. Structural and Multidisciplinary Optimization, 2019, 60, 1937-1955. | 1.7 | 33 |
| 41 | Simultaneous topology, shape, and size optimization of trusses, taking account of uncertainties using multi-objective evolutionary algorithms. Engineering With Computers, 2019, 35, 721-740. | 3.5 | 30 |
| 42 | Optimum plate-fin heat sinks by using a multi-objective evolutionary algorithm. Engineering Optimization, 2010, 42, 305-323. | 1.5 | 29 |
| 43 | Simultaneous topology and sizing optimization of a water distribution network using a hybrid multiobjective evolutionary algorithm. Applied Soft Computing Journal, 2013, 13, 3693-3702. | 4.1 | 29 |
| 44 | Automated design of aircraft fuselage stiffeners using multiobjective evolutionary optimisation. International Journal of Vehicle Design, 2019, 80, 162. | 0.1 | 28 |
| 45 | Aircraft morphing wing design by using partial topology optimization. Structural and Multidisciplinary Optimization, 2013, 48, 1109-1128. | 1.7 | 27 |
| 46 | 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. | 0.1 | 27 |
| 47 | Performance enhancement of multiobjective evolutionary optimisers for truss design using an approximate gradient. Computers and Structures, 2012, 106-107, 115-124. | 2.4 | 26 |
| 48 | Constraint handling technique for four-bar linkage path generation using self-adaptive teachingâ€“learning-based optimization with a diversity archive. Engineering Optimization, 2021, 53, 513-530. | 1.5 | 26 |
| 49 | Multiobjecitve structural optimization using improved heat transfer search. Knowledge-Based Systems, 2021, 219, 106811. | 4.0 | 26 |
| 50 | Multi-Objective Teaching-Learning-Based Optimization for Structure Optimization. Smart Science, 2022, 10, 56-67. | 1.9 | 25 |
| 51 | New conceptual design of aeroelastic wing structures by multi-objective optimization. Engineering Optimization, 2013, 45, 107-122. | 1.5 | 24 |
| 52 | Improved metaheuristics through migration-based search and an acceptance probability for truss optimization. Asian Journal of Civil Engineering, 2020, 21, 1217-1237. | 0.8 | 24 |
| 53 | Performance enhancement of meta-heuristics through random mutation and simulated annealing-based selection for concurrent topology and sizing optimization of truss structures. Soft Computing, 2022, 26, 5661-5683. | 2.1 | 23 |
| 54 | Comparison of response surface methodology and hybrid-training approach of artificial neural network in modelling the properties of concrete containing steel fibre extracted from waste tyres. Cogent Engineering, 2019, 6, . | 1.1 | 22 |

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|---|---|---|---|
| 55 | 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. | 3.0 | 21 |
| 56 | Adaptive Sine Cosine Algorithm Integrated with Differential Evolution for Structural Damage Detection. Lecture Notes in Computer Science, 2017, , 71-86. | 1.0 | 19 |
| 57 | Optimal Synthesis of Four-Bar Linkage Path Generation through Evolutionary Computation with a Novel Constraint Handling Technique. Computational Intelligence and Neuroscience, 2018, 2018, 1-16. | 1.1 | 19 |
| 58 | Comparison of recent algorithms for many-objective optimisation of an automotive floor-frame. International Journal of Vehicle Design, 2019, 80, 176. | 0.1 | 19 |
| 59 | Self-adaptive MRPBIL-DE for 6D robot multiobjective trajectory planning. Expert Systems With Applications, 2019, 136, 133-144. | 4.4 | 18 |
| 60 | Experiment and computation multi-fidelity multi-objective airfoil design optimization of fixed-wing UAV. Journal of Mechanical Science and Technology, 2021, 35, 4065-4072. | 0.7 | 18 |
| 61 | Synthesis of multiple cross-section pin fin heat sinks using multiobjective evolutionary algorithms. International Journal of Heat and Mass Transfer, 2018, 118, 462-470. | 2.5 | 18 |
| 62 | Improved Population-Based Incremental Learning in Continuous Spaces. Advances in Intelligent and Soft Computing, 2011, , 77-86. | 0.2 | 17 |
| 63 | Simultaneous Topology, Shape, and Sizing Optimisation of Plane Trusses with Adaptive Ground Finite Elements Using MOEAs. Mathematical Problems in Engineering, 2013, 2013, 1-9. | 0.6 | 16 |
| 64 | Hybrid Population-Based Incremental Learning Using Real Codes. Lecture Notes in Computer Science, 2011, , 379-391. | 1.0 | 16 |
| 65 | A Comparative Study of Eighteen Self-adaptive Metaheuristic Algorithms for Truss Sizing Optimisation. KSCE Journal of Civil Engineering, 2018, 22, 2982-2993. | 0.9 | 15 |
| 66 | Multiobjective meta-heuristic with iterative parameter distribution estimation for aeroelastic design of an aircraft wing. Engineering With Computers, 2022, 38, 695-713. | 3.5 | 14 |
| 67 | Ground Structures-Based Topology Optimization of a Morphing Wing Using a Metaheuristic Algorithm. Metals, 2021, 11, 1311. | 1.0 | 14 |
| 68 | Hybrid real-code population-based incremental learning and approximate gradients for multi-objective truss design. Engineering Optimization, 2014, 46, 1032-1051. | 1.5 | 13 |
| 69 | Solving Partial Differential Equations Using a New Differential Evolution Algorithm. Mathematical Problems in Engineering, 2014, 2014, 1-10. | 0.6 | 13 |
| 70 | Topology Optimisation Using MPBILs and Multi-Grid Ground Element. Applied Sciences (Switzerland), 2018, 8, 271. | 1.3 | 13 |
| 71 | Hybrid Taguchi-LÃ©vy flight distribution optimization algorithm for solving real-world design optimization problems. Materialpruefung/Materials Testing, 2021, 63, 547-551. | 0.8 | 13 |
| 72 | Efficient hybrid evolutionary algorithm for optimization of a strip coiling process. Engineering Optimization, 2015, 47, 521-532. | 1.5 | 12 |

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| 73 | Hybrid real-code ant colony optimisation for constrained mechanical design. International Journal of Systems Science, 2016, 47, 474-491. | 3.7 | 12 |
| 74 | Multi-Objective, Reliability-Based Design Optimization of a Steering Linkage. Applied Sciences (Switzerland), 2020, 10, 5748. | 1.3 | 12 |
| 75 | Multiobjective Evolutionary Optimization of Splayed Pin-Fin Heat Sink. Engineering Applications of Computational Fluid Mechanics, 2011, 5, 553-565. | 1.5 | 11 |
| 76 | Multi-objective reliability-based topology optimization of structures using a fuzzy set model. Journal of Mechanical Science and Technology, 2020, 34, 3973-3980. | 0.7 | 11 |
| 77 | A novel hybrid marine predators-Nelder-Mead optimization algorithm for the optimal design of engineering problems. Materialpruefung/Materials Testing, 2021, 63, 453-457. | 0.8 | 11 |
| 78 | Optimization of flatness of strip during coiling process based on evolutionary algorithms. International Journal of Precision Engineering and Manufacturing, 2015, 16, 1493-1499. | 1.1 | 9 |
| 79 | Simultaneous Topology, Shape and Sizing Optimisation of Skeletal Structures Using Multiobjective Evolutionary Algorithms. , 0, , . | | 8 |
| 80 | Surrogate-Assisted Multiobjective Evolutionary Algorithms for Structural Shape and Sizing Optimisation. Mathematical Problems in Engineering, 2013, 2013, 1-13. | 0.6 | 8 |
| 81 | 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. | 0.7 | 8 |
| 82 | An Approach Combining an Efficient and Global Evolutionary Algorithm with a Gradient-Based Method for Airfoil Design Problems. Smart Science, 2020, 8, 14-23. | 1.9 | 8 |
| 83 | Reliability-Based Design of an Aircraft Wing Using a Fuzzy-Based Metaheuristic. Applied Sciences (Switzerland), 2021, 11, 6463. | 1.3 | 8 |
| 84 | Optimum design of an air suspension seat using recent structural optimization techniques. Materialpruefung/Materials Testing, 2020, 62, 242-250. | 0.8 | 8 |
| 85 | Hybridised differential evolution and equilibrium optimiser with learning parameters for mechanical and aircraft wing design. Knowledge-Based Systems, 2022, 239, 107955. | 4.0 | 7 |
| 86 | 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. | 1.1 | 6 |
| 87 | Solving Inverse Kinematics of Robot Manipulators by Means of Meta-Heuristic Optimisation. IOP Conference Series: Materials Science and Engineering, 2018, 370, 012056. | 0.3 | 6 |
| 88 | Optimization of Steering Linkage Including the Effect of McPherson Strut Front Suspension. Lecture Notes in Computer Science, 2018, , 612-623. | 1.0 | 6 |
| 89 | Finite Element Analysis of Grain Size Effects on Curvature in Micro-Extrusion. Applied Sciences (Switzerland), 2020, 10, 4767. | 1.3 | 6 |
| 90 | A review on strengthening, delamination formation and suppression techniques during drilling of CFRP composites. Cogent Engineering, 2021, 8, . | 1.1 | 6 |

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| 91 | Structural health monitoring through meta-heuristics - comparative performance study. Advances in Computational Design, 2016, 1, 315-327. | 0.3 | 6 |
| 92 | Passive vibration suppression of a walking tractor handlebar structure using multiobjective PBIL. , 2007, , . | | 5 |
| 93 | Comparative Performance of Surrogate-Assisted MOEAs for Geometrical Design of Pin-Fin Heat Sinks. Journal of Applied Mathematics, 2012, 2012, 1-14. | 0.4 | 5 |
| 94 | Trajectory Planning of a 6D Robot based on Meta Heuristic Algorithms. MATEC Web of Conferences, 2018, 220, 06004. | 0.1 | 5 |
| 95 | Multiobjective Simultaneous Topology, Shape and Sizing Optimization of Trusses Using Evolutionary Optimizers. IOP Conference Series: Materials Science and Engineering, 2018, 370, 012029. | 0.3 | 4 |
| 96 | Vibration Suppression of a Single-Cylinder Engine by Means of Multi-objective Evolutionary Optimisation. Sustainability, 2018, 10, 2067. | 1.6 | 4 |
| 97 | Multi-objective Optimization of a Steering Linkage Using Alternative Objective Functions. Lecture Notes in Computer Science, 2019, , 47-58. | 1.0 | 4 |
| 98 | The Effect of Multi-Additional Sampling for Multi-Fidelity Efficient Global Optimization. Symmetry, 2020, 12, 1499. | 1.1 | 4 |
| 99 | A novel hybrid water wave optimization algorithm for solving complex constrained engineering problems. Materialpruefung/Materials Testing, 2021, 63, 560-564. | 0.8 | 4 |
| 100 | Many-Objective Optimisation of Trusses Through Meta-Heuristics. Lecture Notes in Computer Science, 2017, , 143-152. | 1.0 | 4 |
| 101 | Surrogate-Assisted Evolutionary Optimizers for Multiobjective Design of a Torque Arm Structure. Applied Mechanics and Materials, 2011, 101-102, 324-328. | 0.2 | 3 |
| 102 | A novel hybridized metaheuristic technique in enhancing the diagnosis of crossâ€sectional dent damaged offshore platform members. Computational Intelligence, 2020, 36, 132-150. | 2.1 | 3 |
| 103 | Aerodynamic Reduced-Order Modeling without Static Correction Requirement Based on Body Vortices. Journal of Engineering (United States), 2013, 2013, 1-6. | 0.5 | 2 |
| 104 | High-Lift Mechanism Motion Generation Synthesis Using a Metaheuristic. Proceedings (mdpi), 2019, 39, 5. | 0.2 | 2 |
| 105 | Adaptive boundary sine cosine optimizer with population reduction for robustness analysis of finite time horizon systems. Applied Soft Computing Journal, 2021, 113, 107900. | 4.1 | 2 |
| 106 | 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. | 1.0 | 2 |
| 107 | Antioptimisation of Trusses Using Two-Level Population-Based Incremental Learning. Journal of Applied Mathematics, 2013, 2013, 1-12. | 0.4 | 1 |
| 108 | Effects of Tool Coatings on Energy Consumption in Micro-Extrusion of Aluminum Alloy 6063. Coatings, 2020, 10, 381. | 1.2 | 1 |

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|---|---|---|---|
| 109 | Optimization of a High-Lift Mechanism Motion Generation Synthesis Using MHS. Lecture Notes in Computer Science, 2021, , 38-45. | 1.0 | 1 |
| 110 | Hybrid spotted hyenaâ€“Nelder-Mead optimization algorithm for selection of optimal machining parameters in grinding operations. Materialpruefung/Materials Testing, 2021, 63, 293-298. | 0.8 | 1 |
| 111 | Multi-additional Sampling Multi-objective Efficient Global Optimization applied to UAVs Airfoil Design Problem. , 2021, , . | | 1 |
| 112 | Estimation of Distribution Algorithm Using Correlation between Binary Elements: A New Binary-Code Metaheuristic. Mathematical Problems in Engineering, 2017, 2017, 1-15. | 0.6 | 0 |
| 113 | ADOSH: software with graphic user interface for analysis and design of truss structures. Asian Journal of Civil Engineering, 2018, 19, 273-286. | 0.8 | 0 |
| 114 | Design and Development of a Threading Machine for Tobacco Leaves. , 2018, , . | | 0 |
| 115 | Multiobjective Trajectory Planning of a 6D Robot based on Multiobjective Meta Heuristic Search. , 2018, , . | | 0 |
| 116 | A simple numerical scheme for generation of weighting factors for multiobjective optimisation. Soft Computing, 2021, 25, 1631-1646. | 2.1 | 0 |
| 117 | Aircraft Control Parameter Estimation Using Self-Adaptive Teaching-Learning-Based Optimization with an Acceptance Probability. Computational Intelligence and Neuroscience, 2021, 2021, 1-12. | 1.1 | 0 |