Zhou Wu

List of Publications by Year
in descending order

78 papers	1,999 citations	304368 22 h-index	253896 43 g-index
81 all docs	81 docs citations	81 times ranked	2007 citing authors

#	Article	IF	Citations
1	Demand side management of photovoltaic-battery hybrid system. Applied Energy, 2015, 148, 294-304.	5.1	233
2	Machine learningâ€“assisted molecular design and efficiency prediction for high-performance organic photovoltaic materials. Science Advances, 2019, 5, eaay4275.	4.7	181
3	Optimal motion planning for overhead cranes. IET Control Theory and Applications, 2014, 8, 1833-1842.	1.2	131
4	Model predictive control for improving operational efficiency of overhead cranes. Nonlinear Dynamics, 2015, 79, 2639-2657.	2.7	124
5	Optimal operation of photovoltaic/battery/diesel/cold-ironing hybrid energy system for maritime application. Energy, 2018, 162, 697-714.	4.5	89
6	Large-scale building energy efficiency retrofit: Concept, model and control. Energy, 2016, 109, 456-465.	4.5	68
7	Improving building energy efficiency by multiobjective neighborhood field optimization. Energy and Buildings, 2015, 87, 45-56.	3.1	67
8	Periodically intermittent controlling for finite-time synchronization of complex dynamical networks. Nonlinear Dynamics, 2015, 79, 295-305.	2.7	66
9	Sequential Solution Polymerization of Poly(3,4-ethylenedioxythiophene) Using V2O5 as Oxidant for Flexible Touch Sensors. IScience, 2019, 12, 66-75.	1.9	61
10	Evolutionary game theoretic demand-side management and control for a class of networked smart grid. Automatica, 2016, 70, 94-100.	3.0	60
11	Learning from normalized local and global discriminative information for semi-supervised regression and dimensionality reduction. Information Sciences, 2015, 324, 286-309.	4.0	59
12	Neighborhood field for cooperative optimization. Soft Computing, 2013, 17, 819-834.	2.1	57
13	Optimal switching renewable energy system for demand side management. Solar Energy, 2015, 114, 278-288.	2.9	55
14	Finiteâ€time synchronisation of neural networks with discrete and distributed delays via periodically intermittent memory feedback control. IET Control Theory and Applications, 2016, 10, 1630-1640.	1.2	46
15	Multi-timescale Forecast of Solar Irradiance Based on Multi-task Learning and Echo State Network Approaches. IEEE Transactions on Industrial Informatics, 2021, 17, 300-310.	7.2	43
16	The Use of Deep Learning to Fast Evaluate Organic Photovoltaic Materials. Advanced Theory and Simulations, 2019, 2, 1800116.	1.3	42
17	Maximum power point tracking of large-scale photovoltaic array. Solar Energy, 2016, 134, 503-514.	2.9	40
18	Configuration of marine photovoltaic system and its MPPT using model predictive control. Solar Energy, 2017, 158, 995-1005.	2.9	39

#	Article	IF	Citations
19	Dynamic battery equalization with energy and time efficiency for electric vehicles. Energy, 2017, 141, 937-948.	4.5	37
20	Adaptive multi-context cooperatively coevolving particle swarm optimization for large-scale problems. Soft Computing, 2017, 21, 4735-4754.	2.1	34
21	Binary neighbourhood field optimisation for unit commitment problems. IET Generation, Transmission and Distribution, 2013, 7, 298-308.	1.4	25
22	A study of similarity measure between tasks for multifactorial evolutionary algorithm. , 2018, , .		24
23	Multi-reservoir echo state computing for solar irradiance prediction: A fast yet efficient deep learning approach. Applied Soft Computing Journal, 2020, 95, 106481.	4.1	24
24	Spatio-temporal modeling with enhanced flexibility and robustness of solar irradiance prediction: A chain-structure echo state network approach. Journal of Cleaner Production, 2020, 261, 121151.	4.6	22
25	A Multistate-Based Control System Approach Toward Optimal Maintenance Planning. IEEE Transactions on Control Systems Technology, 2017, 25, 374-381.	3.2	21
26	Tariff-driven demand side management of green ship. Solar Energy, 2018, 170, 991-1000.	2.9	21
27	Estimate and characterize PV power at demand-side hybrid system. Applied Energy, 2018, 218, 66-77.	5.1	20
28	Vehicular Fog Computing Enabled Real-Time Collision Warning via Trajectory Calibration. Mobile Networks and Applications, 2020, 25, 2482-2494.	2.2	19
29	Automatic and optimal rebar layout in reinforced concrete structure by decomposed optimization algorithms. Automation in Construction, 2021, 126, 103655.	4.8	19
30	A local multiobjective optimization algorithm using neighborhood field. Structural and Multidisciplinary Optimization, 2012, 46, 853-870.	1.7	18
31	Semi-Supervised Image Classification Based on Local and Global Regression. IEEE Signal Processing Letters, 2015, 22, 1666-1670.	2.1	18
32	Crowdsourcing Model for Energy Efficiency Retrofit and Mixed-Integer Equilibrium Analysis. IEEE Transactions on Industrial Informatics, 2020, 16, 4512-4524.	7.2	17
33	Intelligent rebar layout in RC building frames using artificial potential field. Automation in Construction, 2020, 114, 103172.	4.8	17
34	A Portfolio Approach of Demand Side Management. IFAC-PapersOnLine, 2017, 50, 171-176.	0.5	16
35	A twofold infill criterion-driven heterogeneous ensemble surrogate-assisted evolutionary algorithm for computationally expensive problems. Knowledge-Based Systems, 2022, 236, 107747.	4.0	15
36	Study neighborhood field optimization algorithm on nonlinear sorptive barrier design problems. Neural Computing and Applications, 2017, 28, 783-795.	3.2	14

#	Article	IF	Citations
37	Utility- and Fairness-Based Spectrum Allocation of Cellular Networks by an Adaptive Particle Swarm Optimization Algorithm. IEEE Transactions on Emerging Topics in Computational Intelligence, 2020, 4, 42-50.	3.4	14
38	Chain-Structure Echo State Network With Stochastic Optimization: Methodology and Application. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 1974-1985.	7.2	14
39	High-volume point cloud data simplification based on decomposed graph filtering. Automation in Construction, 2021, 129, 103815.	4.8	13
40	Optimal brick layout of masonry walls based on intelligent evolutionary algorithm and building information modeling. Automation in Construction, 2021, 129, 103824.	4.8	12
41	An aRBF surrogate-assisted neighborhood field optimizer for expensive problems. Swarm and Evolutionary Computation, 2022, 68, 100972.	4.5	8
42	Multimodal optimization using particle swarm optimization algorithms: CEC 2015 competition on single objective multi-niche optimization. , 2015, , .		6
43	Spectrum allocation by wave based adaptive differential evolution algorithm. Ad Hoc Networks, 2019, 94, 101969.	3.4	6
44	Optimal power flow dispatching of maritime hybrid energy system using model predictive control. Energy Procedia, 2019, 158, 6183-6188.	1.8	6
45	Two-layered ant colony system to improve engraving robotâ€™s efficiency based on a large-scale TSP model. Neural Computing and Applications, 2021, 33, 6939-6949.	3.2	6
46	On the theoretical and computational analysis between Trace Ratio LDA and null-space LDA. , 2012, , .		5
47	Image classification via least square semi-supervised discriminant analysis with flexible kernel regression for out-of-sample extension. Neurocomputing, 2015, 153, 96-107.	3.5	5
48	Topological Structure of Large-scale Photovoltaic Array and its MPPT Controlling Method. Energy Procedia, 2017, 105, 113-118.	1.8	5
49	Dual problem of sorptive barrier design with a multiobjective approach. Neural Computing and Applications, 2018, 30, 2895-2905.	3.2	5
50	Cooperative coding and caching scheduling via binary particle swarm optimization in software-defined vehicular networks. Neural Computing and Applications, 2021, 33, 1467-1478.	3.2	5
51	Automated steel reinforcement detailing in reinforced concrete frames using evolutionary optimization and artificial potential field. Automation in Construction, 2022, 138, 104224.	4.8	5
52	Constrained Multiobjective Biogeography Optimization Algorithm. Scientific World Journal, The, 2014, 2014, 1-12.	0.8	4
53	Network characteristics for neighborhood field algorithms. Neural Computing and Applications, 2020, 32, 12061-12078.	3.2	4
54	A method based on multiscale base-scale entropy and random forests for roller bearings faults diagnosis. Journal of Vibroengineering, 2018, 20, 175-188.	0.5	4

#	Article	IF	Citations
55	Network Rebalance and Operational Efficiency of Sharing Transportation System: Multi-Objective Optimization and Model Predictive Control Approaches. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 17119-17129.	4.7	4
56	Optimal control of maintenance instants and intensities in building energy efficiency retrofitting project. , 2015, , .		3
57	An Artificial Bee Colony Algorithm with History-Driven Scout Bees Phase. Lecture Notes in Computer Science, 2015, , 239-246.	1.0	3
58	Echo state network-based spatio-temporal model for solar irradiance estimation. Energy Procedia, 2019, 158, 3808-3813.	1.8	3
59	Optimal schedule of photovoltaic-battery hybrid system at demand side. , 2014, , .		2
60	Leap on large-scale nonseparable problems. , 2016, , .		2
61	Lighting retrofit and maintenance models with decay and adaptive control. IET Control Theory and Applications, 2018, 12, 593-600.	1.2	2
62	Echo state network-based visibility graph method for nonlinear time series prediction. , 2018, , .		2
63	Multi-population genetic programming with adaptively weighted building blocks for symbolic regression. , 2018, , .		2
64	Decomposed Model Predictive Control for Economic Dispatch problems. , 2013, , .		1
65	A switched MPC approach of hybrid system for demand side management. , 2017, , .		1
66	Interactive Dynamics in Building Maintenance and Retrofit. Energy Procedia, 2017, 105, 3363-3368.	1.8	1
67	A Sawtooth Growing Exploitation Framework for Memetic Algorithms. , 2018, , .		1
68	Local cooperation delivers global optimization. , 2012, , .		0
69	Switching control for renewable hybrid systems. , 2015, , .		0
70	Multi-context cooperative coevolution in particle swarm optimization. , 2016, , .		0
71	An economic dispatching and stability control approach for demand side management. , 2017, , .		0
72	A class of nonlinear system for lighting retrofit. , 2017, , .		0

#	Article	IF	Citations
73	Neighborhood field optimization algorithm with dendritical structure. , 2017, , .		0
74	Automated Optimization of Longitudinal Tensile Reinforcement in RC Beam Using Binary PSO Algorithm. , 2018, , .		0
75	A Surrogate-based Optimization Algorithm with Local Search. , 2018, , .		0
76	A Multiscale Differential Evolution Algorithm-Based Maintenance Plan Optimization for Building Energy Retrofitting. Complexity, 2018, 2018, 1-12.	0.9	0
77	Study Artificial Potential Field on the Clash Free Layout of Rebar in Reinforced Concrete Beam â€“ Column Joints. , 2018, , .		0
78	Contour Gradient Optimization. Advances in Computational Intelligence and Robotics Book Series, 2020, , 247-276.	0.4	0