

Changzhi Wu

List of Publications by Year in descending order

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96
papers

2,222
citations

185998

28
h-index

243296

44
g-index

96
all docs

96
docs citations

96
times ranked

1939
citing authors

#	ARTICLE	IF	CITATIONS
1	An overview of corrosion defect characterization using active infrared thermography. <i>Infrared Physics and Technology</i> , 2019, 96, 366-389.	1.3	132
2	A novel differential search algorithm and applications for structure design. <i>Applied Mathematics and Computation</i> , 2015, 268, 246-269.	1.4	130
3	Differential received signal strength based RFID positioning for construction equipment tracking. <i>Advanced Engineering Informatics</i> , 2019, 42, 100960.	4.0	114
4	Integrating BIM and LiDAR for Real-Time Construction Quality Control. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2015, 79, 417-432.	2.0	105
5	An exact penalty function-based differential search algorithm for constrained global optimization. <i>Soft Computing</i> , 2016, 20, 1305-1313.	2.1	99
6	Hamiltonian analysis of a hydro-energy generation system in the transient of sudden load increasing. <i>Applied Energy</i> , 2017, 185, 244-253.	5.1	98
7	Dynamic modeling and dynamical analysis of pump-turbines in S-shaped regions during runaway operation. <i>Energy Conversion and Management</i> , 2017, 138, 375-382.	4.4	79
8	Binary artificial algae algorithm for multidimensional knapsack problems. <i>Applied Soft Computing Journal</i> , 2016, 43, 583-595.	4.1	71
9	Decomposition-based multi-objective firefly algorithm for RFID network planning with uncertainty. <i>Applied Soft Computing Journal</i> , 2017, 55, 549-564.	4.1	69
10	A genetic algorithm for unconstrained multi-objective optimization. <i>Swarm and Evolutionary Computation</i> , 2015, 22, 1-14.	4.5	62
11	Dynamic reward and penalty strategies of green building construction incentive: an evolutionary game theory-based analysis. <i>Environmental Science and Pollution Research</i> , 2021, 28, 44902-44915.	2.7	52
12	Practical algorithm for stochastic optimal control problem about microbial fermentation in batch culture. <i>Optimization Letters</i> , 2019, 13, 527-541.	0.9	50
13	Dynamics analysis of the fast-slow hydro-turbine governing system with different time-scale coupling. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2018, 54, 136-147.	1.7	49
14	Optimal control of switched systems with time delay. <i>Applied Mathematics Letters</i> , 2006, 19, 1062-1067.	1.5	48
15	A system of nonsmooth equations solver based upon subgradient method. <i>Applied Mathematics and Computation</i> , 2015, 251, 284-299.	1.4	48
16	A Binary differential search algorithm for the 0-1 multidimensional knapsack problem. <i>Applied Mathematical Modelling</i> , 2016, 40, 9788-9805.	2.2	48
17	Reference tag supported RFID tracking using robust support vector regression and Kalman filter. <i>Advanced Engineering Informatics</i> , 2017, 32, 1-10.	4.0	47
18	Spatiotemporal charging scheduling in wireless rechargeable sensor networks. <i>Computer Communications</i> , 2020, 152, 155-170.	3.1	42

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19	A hybrid method combining genetic algorithm and Hooke-Jeeves method for constrained global optimization. <i>Journal of Industrial and Management Optimization</i> , 2014, 10, 1279-1296.	0.8	42
20	Ejector performance prediction at critical and subcritical operational modes. <i>Applied Thermal Engineering</i> , 2017, 115, 444-454.	3.0	37
21	Sensitivity analysis of a Pelton hydropower station based on a novel approach of turbine torque. <i>Energy Conversion and Management</i> , 2017, 148, 785-800.	4.4	36
22	Gradient-free method for nonsmooth distributed optimization. <i>Journal of Global Optimization</i> , 2015, 61, 325-340.	1.1	34
23	On the triality theory for a quartic polynomial optimization problem. <i>Journal of Industrial and Management Optimization</i> , 2012, 8, 229-242.	0.8	33
24	Maximizing lifetime of a wireless sensor network via joint optimizing sink placement and sensor-to-sink routing. <i>Applied Mathematical Modelling</i> , 2017, 49, 319-337.	2.2	32
25	The slow-fast dynamical behaviors of a hydro-turbine governing system under periodic excitations. <i>Nonlinear Dynamics</i> , 2017, 87, 2519-2528.	2.7	32
26	Stochastic Project Scheduling with Hierarchical Alternatives. <i>Applied Mathematical Modelling</i> , 2018, 58, 181-202.	2.2	31
27	RFID-Aided Tracking System to Improve Work Efficiency of Scaffold Supplier: Stock Management in Australasian Supply Chain. <i>Journal of Construction Engineering and Management - ASCE</i> , 2018, 144, .	2.0	30
28	Fast-slow dynamics of a hydropower generation system with multi-time scales. <i>Mechanical Systems and Signal Processing</i> , 2018, 110, 458-468.	4.4	28
29	Space-Time Repetitive Project Scheduling Considering Location and Congestion. <i>Journal of Computing in Civil Engineering</i> , 2018, 32, .	2.5	28
30	Min-max optimal control of linear systems with uncertainty and terminal state constraints. <i>Automatica</i> , 2013, 49, 1809-1815.	3.0	24
31	Multi-Criterion Two-Sided Matching of Public-Private Partnership Infrastructure Projects: Criteria and Methods. <i>Sustainability</i> , 2018, 10, 1178.	1.6	22
32	Joint-Venture Contractor Selection Using Competitive and Collaborative Criteria with Uncertainty. <i>Journal of Construction Engineering and Management - ASCE</i> , 2019, 145, .	2.0	22
33	Discrete Firefly Algorithm for Scaffolding Construction Scheduling. <i>Journal of Computing in Civil Engineering</i> , 2017, 31, .	2.5	21
34	Bayesian network approach to fault diagnosis of a hydroelectric generation system. <i>Energy Science and Engineering</i> , 2019, 7, 1669-1677.	1.9	21
35	D.C. programming for sparse proximal support vector machines. <i>Information Sciences</i> , 2021, 547, 187-201.	4.0	21
36	An Inexact Dual Fast Gradient-Projection Method for Separable Convex Optimization with Linear Coupled Constraints. <i>Journal of Optimization Theory and Applications</i> , 2016, 168, 153-171.	0.8	20

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37	Stochastic mirror descent method for distributed multi-agent optimization. Optimization Letters, 2018, 12, 1179-1197.	0.9	20
38	Sparsity-promoting distributed charging control for plug-in electric vehicles over distribution networks. Applied Mathematical Modelling, 2018, 58, 111-127.	2.2	20
39	A direct optimization method for low group delay FIR filter design. Signal Processing, 2013, 93, 1764-1772.	2.1	19
40	Case Study of Selecting Decision-Making Schemes in Large-Scale Infrastructure Projects. Journal of Infrastructure Systems, 2017, 23, .	1.0	18
41	Automatic as-built modeling for concurrent progress tracking of plant construction based on laser scanning. Concurrent Engineering Research and Applications, 2016, 24, 369-380.	2.0	16
42	A hybrid approach to constrained global optimization. Applied Soft Computing Journal, 2016, 47, 281-294.	4.1	16
43	Interorganizational Diffusion of Prefabricated Construction Technology: Two-Stage Evolution Framework. Journal of Construction Engineering and Management - ASCE, 2020, 146, 04020114.	2.0	16
44	A DC programming approach for sensor network localization with uncertainties in anchor positions. Journal of Industrial and Management Optimization, 2014, 10, 817-826.	0.8	14
45	Cooperation performance of multi-organisations operating in a sharing economy: game theory with agent-based modelling. International Journal of Production Research, 2020, 58, 7044-7057.	4.9	14
46	Construction project scheduling under workspace interference. Computer-Aided Civil and Infrastructure Engineering, 2020, 35, 923-946.	6.3	13
47	Non-linear modelling and stability analysis of the PTGS at pump mode. IET Renewable Power Generation, 2017, 11, 827-836.	1.7	13
48	Sparsity-enhanced optimization for ejector performance prediction. Energy, 2016, 113, 25-34.	4.5	12
49	Multi-objective stochastic project scheduling with alternative execution methods: An improved quantum-behaved particle swarm optimization approach. Expert Systems With Applications, 2022, 203, 117029.	4.4	11
50	A filled function method for optimal discrete-valued control problems. Journal of Global Optimization, 2009, 44, 213-225.	1.1	10
51	Optimal atomic-resolution structures of prion AGAAAAGA amyloid fibrils. Journal of Theoretical Biology, 2011, 279, 17-28.	0.8	10
52	Global Optimal Design of IIR Filters via Constraint Transcription and Filled Function Methods. Circuits, Systems, and Signal Processing, 2013, 32, 1313-1334.	1.2	10
53	Optimizations in Project Scheduling: A State-of-Art Survey. Intelligent Systems, Control and Automation: Science and Engineering, 2014, , 161-177.	0.3	9
54	Robust identification of nonlinear state-dependent impulsive switched system with switching duration constraints. Nonlinear Analysis: Hybrid Systems, 2020, 36, 100879.	2.1	9

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55	A Multiobjective Genetic Algorithm Based on a Discrete Selection Procedure. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-17.	0.6	8
56	Estimation of Archie parameters by a novel hybrid optimization algorithm. <i>Journal of Petroleum Science and Engineering</i> , 2015, 135, 232-239.	2.1	8
57	Optimal Joint Design of Discrete Fractional Fourier Transform Matrices and Mask Coefficients for Multichannel Filtering in Fractional Fourier Domains. <i>IEEE Transactions on Signal Processing</i> , 2018, 66, 6016-6030.	3.2	7
58	Design of optimal utility of wireless rechargeable sensor networks via joint spatiotemporal scheduling. <i>Applied Mathematical Modelling</i> , 2020, 86, 54-73.	2.2	7
59	3,4-Ethylenedioxythiophene Functionalized with Tetrathiafulvalene: Synthesis and Selective Esterification. <i>Journal of Heterocyclic Chemistry</i> , 2014, 51, 1277-1281.	1.4	6
60	Bidding Strategy to Support Decision-Making Based on Comprehensive Information in Construction Projects. <i>Discrete Dynamics in Nature and Society</i> , 2016, 2016, 1-15.	0.5	6
61	Excitation Current Analysis of a Hydropower Station Model Considering Complex Water Diversion Pipes. <i>Journal of Energy Engineering - ASCE</i> , 2017, 143, .	1.0	6
62	Existence and uniqueness of solutions of piecewise nonlinear systems. <i>Nonlinear Analysis: Theory, Methods & Applications</i> , 2009, 71, 6109-6115.	0.6	5
63	Distributed Optimization Methods for Nonconvex Problems with Inequality Constraints over Time-Varying Networks. <i>Complexity</i> , 2017, 2017, 1-10.	0.9	5
64	Robust truncated $L_{2,2}$ -norm twin support vector machine. <i>International Journal of Machine Learning and Cybernetics</i> , 2021, 12, 3415-3436.	2.3	5
65	Optimal control of piecewise affine systems with piecewise affine state feedback. <i>Journal of Industrial and Management Optimization</i> , 2009, 5, 737-747.	0.8	5
66	A dual parametrization approach to Nyquist filter design. <i>Signal Processing</i> , 2010, 90, 3128-3133.	2.1	4
67	DISTRIBUTED PROXIMAL-GRADIENT METHOD FOR CONVEX OPTIMIZATION WITH INEQUALITY CONSTRAINTS. <i>ANZIAM Journal</i> , 2014, 56, 160-178.	0.3	4
68	Performance Predictions of Dry and Wet Vapors Ejectors Over Entire Operational Range. <i>Energies</i> , 2017, 10, 1012.	1.6	4
69	Distributionally robust ramp metering under traffic demand uncertainty. <i>Transportmetrica B</i> , 2022, 10, 652-666.	1.4	4
70	A quasisecant method for solving a system of nonsmooth equations. <i>Computers and Mathematics With Applications</i> , 2013, 66, 419-431.	1.4	3
71	Minimax optimal control of linear system with input-dependent uncertainty. <i>Journal of the Franklin Institute</i> , 2014, 351, 2742-2754.	1.9	3
72	A modified quasisecant method for global optimization. <i>Applied Mathematical Modelling</i> , 2017, 51, 21-37.	2.2	3

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73	Spatial Signal Attenuation Model of Active RFID Tags. IEEE Access, 2018, 6, 6947-6960.	2.6	3
74	Spatial Signal Attenuation Model of Active RFID Tags. , 2017, , .		2
75	Accelerated Sampling Optimization for RF Energy Harvesting Wireless Sensor Network. IEEE Access, 2018, 6, 52161-52168.	2.6	2
76	Manufacturersâ€™ Green Decision Evolution Based on Multi-Agent Modeling. Complexity, 2019, 2019, 1-14.	0.9	2
77	A multi-agent differential evolution for linear array synthesis. , 2010, , .		1
78	Optimization in Industrial Systems. Mathematical Problems in Engineering, 2014, 2014, 1-2.	0.6	1
79	A Framework Design for Optimizing Scaffolding Erection by Applying Mathematical Models and Virtual Simulation. , 2014, , .		1
80	Scaffolding progress monitoring of LNG plant maintenance project using BIM and image processing technologies. , 2017, , .		1
81	Editorial of Dynamical Systems, Control and Optimization. Differential Equations and Dynamical Systems, 2018, 26, 1-1.	0.5	1
82	Complexity of Construction Mega Infrastructure Project. Complexity, 2018, 2018, 1-1.	0.9	1
83	A Prototype Tool of Optimal Wireless Sensor Placement for Structural Health Monitoring. Lecture Notes in Computer Science, 2018, , 53-73.	1.0	1
84	B2C online ride-hailing pricing and service optimization under competitions. Journal of Industrial and Management Optimization, 2021, .	0.8	1
85	Distributed proximal-gradient method for convex optimization with inequality constraints. ANZIAM Journal, 0, 56, 160.	0.0	1
86	Synthesis of 3,4-Ethylenedioxythiophene Substituted with Hydroxymethyl and Iodomethyl Groups and Their Selective Esterification and Etherification. Chinese Journal of Organic Chemistry, 2013, 33, 148.	0.6	1
87	Robust Optimal Control of Continuous Linear Quadratic System Subject to Disturbances. Intelligent Systems, Control and Automation: Science and Engineering, 2014, , 11-34.	0.3	1
88	Incremental gradient-free method for nonsmooth distributed optimization. Journal of Industrial and Management Optimization, 2017, 13, 1841-1857.	0.8	1
89	Perimeter Control With State-Dependent Delays: Optimal Control Model and Computational Method. IEEE Transactions on Intelligent Transportation Systems, 2022, , 1-14.	4.7	1
90	A low-complexity method for the design of low-delay cosine-modulated filter banks. , 2010, , .		0

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91	Design of Nonuniform Transmultiplexers with Block Samplers and Single-Input Single-Output Linear Time-Invariant Filters Based on Perfect Reconstruction Condition. <i>Circuits, Systems, and Signal Processing</i> , 2016, 35, 4081-4098.	1.2	0
92	A nonsmooth equation system solver based on subgradient method. , 2017, , .		0
93	Determination of fractional pixel location via an optimal group delay estimation approach. <i>Signal, Image and Video Processing</i> , 2019, 13, 1477-1485.	1.7	0
94	The Worst-Case DFT Filter Bank Design with Subchannel Variations. , 2015, , 183-205.		0
95	Improved Cuckoo Search algorithm for numerical function optimization. <i>Journal of Industrial and Management Optimization</i> , 2020, 16, 103-115.	0.8	0
96	A Smoothing Method for Ramp Metering. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 13358-13371.	4.7	0