

Improved Strategies for Radial basis Function Methods

Journal of Global Optimization

37, 113-135

DOI: [10.1007/s10898-006-9040-1](https://doi.org/10.1007/s10898-006-9040-1)

Citation Report

#	ARTICLE	IF	CITATIONS
1	DE-AEC: A differential evolution algorithm based on adaptive evolution control. , 2007, , .		6
2	Parallel radial basis function methods for the global optimization of expensive functions. European Journal of Operational Research, 2007, 182, 514-535.	3.5	52
3	An adaptive radial basis algorithm (ARBF) for expensive black-box mixed-integer constrained global optimization. Optimization and Engineering, 2008, 9, 311-339.	1.3	57
4	A Scalarizing One-Stage Algorithm for Efficient Multi-Objective Optimization. IEEE Transactions on Magnetics, 2008, 44, 1094-1097.	1.2	21
5	A Kriging-Based Approach to MINLP Containing Black-Box Models and Noise. Industrial & Engineering Chemistry Research, 2008, 47, 6101-6125.	1.8	21
6	Computationally Efficient Procedures for Uncertainty Assessment of Complex Environmental Models. , 2008, , .		0
7	Parallel Stochastic Global Optimization Using Radial Basis Functions. INFORMS Journal on Computing, 2009, 21, 411-426.	1.0	59
8	A centroid-based sampling strategy for kriging global modeling and optimization. AIChE Journal, 2010, 56, 220-240.	1.8	12
9	A kriging based method for the solution of mixed-integer nonlinear programs containing black-box functions. Journal of Global Optimization, 2009, 43, 191-205.	1.1	59
10	A review of recent advances in global optimization. Journal of Global Optimization, 2009, 45, 3-38.	1.1	382
11	Bayesian Guided Pattern Search for Robust Local Optimization. Technometrics, 2009, 51, 389-401.	1.3	56
12	On similarities between two models of global optimization: statistical models and radial basis functions. Journal of Global Optimization, 2010, 48, 173-182.	1.1	42
13	Structural optimization based on CAD-CAE integration and metamodeling techniques. CAD Computer Aided Design, 2010, 42, 889-902.	1.4	146
14	Computational benefits using artificial intelligent methodologies for the solution of an environmental design problem: saltwater intrusion. Water Science and Technology, 2010, 62, 1479-1490.	1.2	36
15	Mixture surrogate models based on Dempster-Shafer theory for global optimization problems. Journal of Global Optimization, 2011, 51, 79-104.	1.1	82
16	Stochastic radial basis function algorithms for large-scale optimization involving expensive black-box objective and constraint functions. Computers and Operations Research, 2011, 38, 837-853.	2.4	144
17	Review of surrogate modeling in water resources. Water Resources Research, 2012, 48, .	1.7	597
18	An experimental methodology for response surface optimization methods. Journal of Global Optimization, 2012, 53, 699-736.	1.1	32

#	ARTICLE	IF	CITATIONS
19	Optimizing radial basis functions by d.c. programming and its use in direct search for global derivative-free optimization. <i>Top</i> , 2012, 20, 190-214.	1.1	12
20	Numerical assessment of metamodeling strategies in computationally intensive optimization. <i>Environmental Modelling and Software</i> , 2012, 34, 67-86.	1.9	113
21	A benchmarking framework for simulation-based optimization of environmental models. <i>Environmental Modelling and Software</i> , 2012, 35, 19-30.	1.9	26
22	Integrated experimental design and nonlinear optimization to handle computationally expensive models under resource constraints. <i>Journal of Global Optimization</i> , 2013, 57, 191-215.	1.1	9
23	Global optimization of expensive black box problems with a known lower bound. <i>Journal of Global Optimization</i> , 2013, 57, 177-190.	1.1	25
24	A quasi-multistart framework for global optimization of expensive functions using response surface models. <i>Journal of Global Optimization</i> , 2013, 56, 1719-1753.	1.1	63
25	On the safety of Gomory cut generators. <i>Mathematical Programming Computation</i> , 2013, 5, 345-395.	3.2	8
26	Combining radial basis function surrogates and dynamic coordinate search in high-dimensional expensive black-box optimization. <i>Engineering Optimization</i> , 2013, 45, 529-555.	1.5	186
27	SO-MI: A surrogate model algorithm for computationally expensive nonlinear mixed-integer black-box global optimization problems. <i>Computers and Operations Research</i> , 2013, 40, 1383-1400.	2.4	147
28	An adaptive multiquadric radial basis function method for expensive black-box mixed-integer nonlinear constrained optimization. <i>Engineering Optimization</i> , 2013, 45, 185-206.	1.5	41
29	Verifying start-up failures in coupled ring oscillators in presence of variability using predictive global optimization. , 2013, , .		4
30	An adaptive radial basis function method using weighted improvement. , 2013, , .		5
31	Derivative-free optimization: a review of algorithms and comparison of software implementations. <i>Journal of Global Optimization</i> , 2013, 56, 1247-1293.	1.1	886
32	On the use of multiple surrogates within a differential evolution procedure for high-lift airfoil design. <i>International Journal of Advanced Intelligence Paradigms</i> , 2013, 5, 319.	0.2	7
33	A surrogate-based optimization method with RBF neural network enhanced by linear interpolation and hybrid infill strategy. <i>Optimization Methods and Software</i> , 2014, 29, 406-429.	1.6	40
34	Constrained optimization by radial basis function interpolation for high-dimensional expensive black-box problems with infeasible initial points. <i>Engineering Optimization</i> , 2014, 46, 218-243.	1.5	144
35	SO-I: a surrogate model algorithm for expensive nonlinear integer programming problems including global optimization applications. <i>Journal of Global Optimization</i> , 2014, 59, 865-889.	1.1	44
36	Influence of ensemble surrogate models and sampling strategy on the solution quality of algorithms for a computationally expensive black-box global optimization problems. <i>Journal of Global Optimization</i> , 2014, 60, 123-144.	1.1	127

#	ARTICLE	IF	CITATIONS
37	Feasibility and flexibility analysis of black-box processes Part 1: Surrogate-based feasibility analysis. <i>Chemical Engineering Science</i> , 2015, 137, 986-1004.	1.9	48
38	Multiobjective optimisation on a budget: Exploring surrogate modelling for robust multi-reservoir rules generation under hydrological uncertainty. <i>Environmental Modelling and Software</i> , 2015, 69, 396-413.	1.9	55
39	Simulation optimization via promising region search and surrogate model approximation. , 2016, . .		1
40	A Recursive Local Polynomial Approximation Method Using Dirichlet Clouds and Radial Basis Functions. <i>SIAM Journal of Scientific Computing</i> , 2016, 38, B619-B644.	1.3	3
41	Enhanced differential evolution using local Lipschitz underestimate strategy for computationally expensive optimization problems. <i>Applied Soft Computing Journal</i> , 2016, 48, 169-181.	4.1	17
42	Pumping Optimization of Coastal Aquifers Assisted by Adaptive Metamodelling Methods and Radial Basis Functions. <i>Water Resources Management</i> , 2016, 30, 5845-5859.	1.9	54
43	Multi-start Space Reduction (MSSR) surrogate-based global optimization method. <i>Structural and Multidisciplinary Optimization</i> , 2016, 54, 907-926.	1.7	56
44	Multi objective optimization of computationally expensive multi-modal functions with RBF surrogates and multi-rule selection. <i>Journal of Global Optimization</i> , 2016, 64, 17-32.	1.1	114
45	Surrogate-enhanced evolutionary annealing simplex algorithm for effective and efficient optimization of water resources problems on a budget. <i>Environmental Modelling and Software</i> , 2016, 77, 122-142.	1.9	39
46	Global optimization advances in Mixed-Integer Nonlinear Programming, MINLP, and Constrained Derivative-Free Optimization, CDFO. <i>European Journal of Operational Research</i> , 2016, 252, 701-727.	3.5	161
47	Trust regions in Kriging-based optimization with expected improvement. <i>Engineering Optimization</i> , 2016, 48, 1037-1059.	1.5	34
48	Surrogate-based methods for black-box optimization. <i>International Transactions in Operational Research</i> , 2017, 24, 393-424.	1.8	94
49	ParEGO extensions for multi-objective optimization of expensive evaluation functions. <i>Journal of Global Optimization</i> , 2017, 67, 79-96.	1.1	14
50	Global optimization of general constrained grey-box models: new method and its application to constrained PDEs for pressure swing adsorption. <i>Journal of Global Optimization</i> , 2017, 67, 3-42.	1.1	82
51	A novel feasibility analysis method for black-box processes using a radial basis function adaptive sampling approach. <i>AIChE Journal</i> , 2017, 63, 532-550.	1.8	62
52	A multi-point sampling method based on kriging for global optimization. <i>Structural and Multidisciplinary Optimization</i> , 2017, 56, 71-88.	1.7	23
53	Multifidelity surrogate modeling based on radial basis functions. <i>Structural and Multidisciplinary Optimization</i> , 2017, 56, 1061-1075.	1.7	53
54	Adaptive Radial-Basis-Function-Based Multifidelity Metamodeling for Expensive Black-Box Problems. <i>AIAA Journal</i> , 2017, 55, 2424-2436.	1.5	38

#	ARTICLE	IF	CITATIONS
55	Optimization of Renewable Energy Businesses under Operational Level Uncertainties through Extensive Sensitivity Analysis and Stochastic Global Optimization. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 3360-3372.	1.8	13
56	Surrogate-based global optimization using an adaptive switching infill sampling criterion for expensive black-box functions. <i>Structural and Multidisciplinary Optimization</i> , 2018, 57, 1443-1459.	1.7	18
57	A RBF-based constrained global optimization algorithm for problems with computationally expensive objective and constraints. <i>Structural and Multidisciplinary Optimization</i> , 2018, 58, 1633-1655.	1.7	16
58	An adaptive framework for costly black-box global optimization based on radial basis function interpolation. <i>Journal of Global Optimization</i> , 2018, 70, 757-781.	1.1	4
59	SMART-Invest: a stochastic, dynamic planning for optimizing investments in wind, solar, and storage in the presence of fossil fuels. The case of the PJM electricity market. <i>Energy Systems</i> , 2018, 9, 277-303.	1.8	4
60	Advances in surrogate based modeling, feasibility analysis, and optimization: A review. <i>Computers and Chemical Engineering</i> , 2018, 108, 250-267.	2.0	437
61	Surrogate-Based Promising Area Search for Lipschitz Continuous Simulation Optimization. <i>INFORMS Journal on Computing</i> , 2018, 30, 677-693.	1.0	9
62	Bayesian Optimization. , 2018, , 255-278.		290
63	Multi-surrogate-based Differential Evolution with multi-start exploration (MDEME) for computationally expensive optimization. <i>Advances in Engineering Software</i> , 2018, 123, 62-76.	1.8	27
64	A Stochastic Adaptive Radial Basis Function Algorithm for Costly Black-Box Optimization. <i>Journal of the Operations Research Society of China</i> , 2018, 6, 587-609.	0.9	0
65	RBFOpt: an open-source library for black-box optimization with costly function evaluations. <i>Mathematical Programming Computation</i> , 2018, 10, 597-629.	3.2	95
66	Two-layer adaptive surrogate-assisted evolutionary algorithm for high-dimensional computationally expensive problems. <i>Journal of Global Optimization</i> , 2019, 74, 327-359.	1.1	30
67	Co-simulation and optimization of building geometry and multi-energy systems: Interdependencies in energy supply, energy demand and solar potentials. <i>Applied Energy</i> , 2019, 242, 1661-1682.	5.1	78
68	Building energy optimization: An extensive benchmark of global search algorithms. <i>Energy and Buildings</i> , 2019, 187, 218-240.	3.1	65
69	Multi-surrogate-based global optimization using a score-based infill criterion. <i>Structural and Multidisciplinary Optimization</i> , 2019, 59, 485-506.	1.7	32
70	Optimization of Reaction Selectivity Using CFD-Based Compartmental Modeling and Surrogate-Based Optimization. <i>Processes</i> , 2019, 7, 9.	1.3	20
71	Emulation of environmental models using polynomial chaos expansion. <i>Environmental Modelling and Software</i> , 2019, 111, 421-431.	1.9	7
72	A dynamic surrogate-assisted evolutionary algorithm framework for expensive structural optimization. <i>Structural and Multidisciplinary Optimization</i> , 2020, 61, 711-729.	1.7	32

#	ARTICLE	IF	CITATIONS
73	A surrogate-based cooperative optimization framework for computationally expensive black-box problems. Optimization and Engineering, 2020, 21, 1053-1093.	1.3	3
74	KASRA: A Kriging-based Adaptive Space Reduction Algorithm for global optimization of computationally expensive black-box constrained problems. Applied Soft Computing Journal, 2020, 90, 106154.	4.1	19
75	Stochastic optimization with adaptive restart: a framework for integrated local and global learning. Journal of Global Optimization, 2021, 79, 87-110.	1.1	11
76	A Three-Level Radial Basis Function Method for Expensive Optimization. IEEE Transactions on Cybernetics, 2022, 52, 5720-5731.	6.2	23
77	Derivative-free mixed binary necklace optimization for cyclic-symmetry optimal design problems. Optimization and Engineering, 0, , 1.	1.3	1
78	Optimization tool based on multi-objective adaptive surrogate modeling for surface texture design of slipper bearing in axial piston pump. AEJ - Alexandria Engineering Journal, 2021, 60, 4483-4503.	3.4	13
79	An Initialization Strategy for High-Dimensional Surrogate-Based Expensive Black-Box Optimization. Springer Proceedings in Mathematics and Statistics, 2013, , 51-85.	0.1	13
80	Black-Box Optimization of Lighting Simulation in Architectural Design. , 2015, , 27-39.		3
82	Static MOSD. Lecture Notes in Electrical Engineering, 2010, , 103-135.	0.3	2
83	Surrogate-Model-Based Design and Optimization. Springer Tracts in Mechanical Engineering, 2020, , 135-236.	0.1	11
84	Adaptive infill sampling strategy for metamodeling: Challenge and future research directions. Bulletin of Electrical Engineering and Informatics, 2020, 9, 2020-2029.	0.6	1
85	Categorical Inputs, Sensitivity Analysis, Optimization and Importance Tempering with tgpr Version 2, an <i>R</i> Package for Treed Gaussian Process Models. Journal of Statistical Software, 2010, 33, .	1.8	79
88	Solving Expensive Multimodal Optimization Problem by a Decomposition Differential Evolution Algorithm. IEEE Transactions on Cybernetics, 2023, 53, 2236-2246.	6.2	6
89	A New Method of Centers Location in Gaussian RBF Interpolation Networks. Lecture Notes in Computer Science, 2013, , 20-31.	1.0	0
91	Early termination strategies with asynchronous parallel optimization in application to automatic calibration of groundwater PDE models. Environmental Modelling and Software, 2022, 147, 105237.	1.9	5
92	A smart sensor-data-driven optimization framework for improving the safety of excavation operations. Expert Systems With Applications, 2022, 193, 116413.	4.4	1
93	Metamodeling techniques for CPU-intensive simulation-based design optimization: a survey. Advanced Modeling and Simulation in Engineering Sciences, 2022, 9, .	0.7	10
94	Efficient, parallelized global optimization of groundwater pumping in a regional aquifer with land subsidence constraints. Journal of Environmental Management, 2022, 310, 114753.	3.8	7

#	ARTICLE	IF	CITATIONS
96	An Improved Blind Kriging Surrogate Model for Design Optimization Problems. Mathematics, 2022, 10, 2906.	1.1	3
97	Convergence Rates of Epsilon-Greedy Global Optimization Under Radial Basis Function Interpolation. Stochastic Systems, 2023, 13, 59-92.	0.8	2
98	Scalable Bayesian optimization with generalized product of experts. Journal of Global Optimization, 0, ,.	1.1	2
99	Expensive Optimization via Surrogate-Assisted and Model-Free Evolutionary Optimization. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2023, 53, 2758-2769.	5.9	10
101	Advancing surrogate-based optimization of time-expensive environmental problems through adaptive multi-model search. Environmental Modelling and Software, 2023, 162, 105639.	1.9	3
102	Kriging-Based Space Exploration Global Optimization Method in Aerodynamic Design. International Journal of Aerospace Engineering, 2023, 2023, 1-30.	0.5	1
109	Data-driven optimization algorithms. , 2024, , 135-180.		0
110	Multi-Objective Optimization Design of Rotor Parameters of External Rotor Synchronous Reluctance Machine Parameters Based on Mixed Surrogate Model. Lecture Notes in Electrical Engineering, 2024, , 436-445.	0.3	0