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**A review of multiobjective test problems and a scalable test problem toolkit**

**DOI: 10.1109/tevc.2005.861417**

**IEEE Transactions on Evolutionary Computation, 2006  
, 10, 477-506.**

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635	R-Mgspline: Retrospective Multi-Gradient Search for Multi-Objective Simulation Optimization on Integer Lattices. <b>2019</b> ,	
634	An Evolutionary Many-Objective Optimization Algorithm Based on IGD Indicator and Region Decomposition. <b>2019</b> ,	0
633	An improved multi-objective optimization algorithm based on decomposition. <b>2019</b> ,	
632	An Improved NSGAI1 Algorithm Based on Site-Directed Mutagenesis Method for Multi-Objective Optimization. <b>2019</b> ,	
631	A comparative study of the state-of-the-art algorithms on multi-objective problems using performance metrics. <b>2019</b> ,	
630	Optimal Distributions of Solutions for Hypervolume Maximization on Triangular and Inverted Triangular Pareto Fronts of Four-Objective Problems. <b>2019</b> ,	1
629	A hybrid multi-agent Coordination Optimization Algorithm. <b>2019</b> , 51, 100603	5
628	Operation Rules Optimization of Cascade Reservoirs Based on Multi-Objective Tangent Algorithm. <b>2019</b> , 7, 161949-161962	2

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625	Ensemble mating selection in evolutionary many-objective search. <b>2019</b> , 76, 294-312		4
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623	Cross Entropy Multi-objective Optimization Algorithm. <b>2019</b> , 83-111		
622	A many-objective evolutionary algorithm with epsilon-indicator direction vector. <b>2019</b> , 76, 326-355		6
621	Distance-Based Subset Selection for Benchmarking in Evolutionary Multi/Many-Objective Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2019</b> , 23, 904-912	15.6	18
620	A Multimodal Multiobjective Evolutionary Algorithm Using Two-Archive and Recombination Strategies. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2019</b> , 23, 660-674	15.6	72
619	Harnessing multi-objective simulated annealing toward configuration optimization within compact space for additive manufacturing. <b>2019</b> , 57, 29-45		6
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617	Evolutionary algorithm using adaptive fuzzy dominance and reference point for many-objective optimization. <b>2019</b> , 44, 1092-1107		12
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615	MOEA/D with angle-based constrained dominance principle for constrained multi-objective optimization problems. <b>2019</b> , 74, 621-633		52
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602	An improved biogeography/complex algorithm based on decomposition for many-objective optimization. <b>2019</b> , 10, 1961-1977		5
601	A sequential quadratically constrained quadratic programming technique for a multi-objective optimization problem. <b>2019</b> , 51, 22-41		7
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597	IGD Indicator-Based Evolutionary Algorithm for Many-Objective Optimization Problems. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2019</b> , 23, 173-187	15.6	171
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572	A simplified multi-objective particle swarm optimization algorithm. <b>2020</b> , 14, 83-116		14
571	Multi-objective particle swarm optimization based on cooperative hybrid strategy. <b>2020</b> , 50, 256-269		9
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561	A New Hypervolume-Based Evolutionary Algorithm for Many-Objective Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2020</b> , 24, 839-852	15.6	29
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539	A Novel Evolutionary Algorithm with Pareto Front Adaption for Many-objective Optimization. <b>2020</b> ,	0
538	An Adaptive Reference Vector-Guided Evolutionary Algorithm Using Growing Neural Gas for Many-Objective Optimization of Irregular Problems. <b>2020</b> , PP,	7

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535	A Controlled Strengthened Dominance Relation for Evolutionary Many-Objective Optimization. <b>2020</b> , PP,	5
534	Preference-Inspired Coevolutionary Algorithm Based on Differentiated Resource Allocation Strategy. <b>2020</b> , 8, 205798-205813	2
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521	A Recommender System for Metaheuristic Algorithms for Continuous Optimization Based on Deep Recurrent Neural Networks. <b>2020</b> , 1, 5-18	12
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516	An Indicator-Based Many-Objective Evolutionary Algorithm With Boundary Protection. <b>2021</b> , 51, 4553-4566	11
515	Methods That Optimize Multi-Objective Problems: A Survey and Experimental Evaluation. <b>2020</b> , 8, 80855-80878	
514	A Sequential Quadratic Programming Method for Constrained Multi-objective Optimization Problems. <b>2020</b> , 64, 379-397	5
513	Risk-Aware Service Routes Planning for System Protection Communication Networks of Software-Defined Networking in Energy Internet. <b>2020</b> , 8, 91005-91019	1
512	An adaptive clustering-based evolutionary algorithm for many-objective optimization problems. <b>2020</b> , 537, 261-283	11
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510	Solving Many-Objective Optimization Problems by a Pareto-Based Evolutionary Algorithm With Preprocessing and a Penalty Mechanism. <b>2021</b> , 51, 5585-5594	3
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504	An enhanced-indicator based many-objective evolutionary algorithm with adaptive reference point. <b>2020</b> , 55, 100669	5
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490	Decomposition-Based Multiobjective Evolutionary Optimization with Adaptive Multiple Gaussian Process Models. <b>2020</b> , 2020, 1-22	3
489	Evolutionary Large-Scale Multiobjective Optimization for Ratio Error Estimation of Voltage Transformers. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2020</b> , 24, 868-881	15.6 25
488	Adaptive Global WASF-GA to handle many-objective optimization problems. <b>2020</b> , 54, 100644	10
487	On q-Newton method for unconstrained multiobjective optimization problems. <b>2020</b> , 63, 391-410	4
486	A region division based decomposition approach for evolutionary many-objective optimization. <b>2020</b> , 194, 105518	4
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470	A many-objective optimization algorithm with mutation strategy based on variable classification and elite individual. <b>2021</b> , 60, 100769		3
469	Many-objective evolutionary algorithm based on relative non-dominance matrix. <b>2021</b> , 547, 963-983		7
468	Preference-inspired coevolutionary algorithm with active diversity strategy for multi-objective multi-modal optimization. <b>2021</b> , 546, 1148-1165		12
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453	Hybrid Heat Transfer Search and Passing Vehicle Search optimizer for multi-objective structural optimization. <b>2021</b> , 212, 106556	18
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446	A Many-Objective Evolutionary Algorithm Based on a Two-Round Selection Strategy. <b>2021</b> , 51, 1417-1429		12
445	Evolutionary Algorithm for Knee-Based Multiple Criteria Decision Making. <b>2021</b> , 51, 722-735		13
444	Angle-Based Multi-Objective Evolutionary Algorithm Based On Pruning-Power Indicator for Game Map Generation. <b>2021</b> , 1-14		1
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442	On Analysis of Irregular Pareto Front Shapes. <b>2021</b> , 15-25		0
441	A Novel Nonlinear Expanded Dominance Relation Based Evolutionary Algorithm for Many-Objective Optimization Problems. <b>2021</b> , 9, 17335-17349		2
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437	Investigating Normalization Bounds for Hypervolume-Based Infill Criterion for Expensive Multiobjective Optimization. <b>2021</b> , 519-530		1
436	Handling Priority Levels in Mixed Pareto-Lexicographic Many-Objective Optimization Problems. <b>2021</b> , 362-374		2
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