

# Rammohan Mallipeddi

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

107  
papers

3,480  
citations

27  
h-index

58  
g-index

121  
ext. papers

4,307  
ext. citations

4.6  
avg, IF

6.04  
L-index

#	Paper	IF	Citations
107	A black-box adversarial attack strategy with adjustable sparsity and generalizability for deep image classifiers. <i>Pattern Recognition</i> , <b>2022</b> , 122, 108279	7.7	6
106	Benchmarking Optimization-Based Energy Disaggregation Algorithms. <i>Energies</i> , <b>2022</b> , 15, 1600	3.1	1
105	A Twin-Archive Guided Decomposition based Multi/Many-objective Evolutionary Algorithm. <i>Swarm and Evolutionary Computation</i> , <b>2022</b> , 101082	9.8	0
104	Hybrid selection based multi/many-objective evolutionary algorithm.. <i>Scientific Reports</i> , <b>2022</b> , 12, 6861	4.9	0
103	A Mating Selection Based on Modified Strengthened Dominance Relation for NSGA-III. <i>Mathematics</i> , <b>2021</b> , 9, 2837	2.3	1
102	A Deep Learning Framework Integrating the Spectral and Spatial Features for Image-Assisted Medical Diagnostics.. <i>IEEE Access</i> , <b>2021</b> , 9, 163686-163696	3.5	1
101	An ensemble approach with external archive for multi- and many-objective optimization with adaptive mating mechanism and two-level environmental selection. <i>Information Sciences</i> , <b>2021</b> , 555, 164-197	7.7	7
100	A Hybrid Discrete Differential Evolution Approach for the Single Machine Total Stepwise Tardiness Problem with Release Dates <b>2021</b> ,		2
99	Energy disaggregation considering least square error and temporal sparsity: A multi-objective evolutionary approach. <i>Swarm and Evolutionary Computation</i> , <b>2021</b> , 64, 100909	9.8	4
98	An Inversion-Free Robust Power-Flow Algorithm for Microgrids. <i>IEEE Transactions on Smart Grid</i> , <b>2021</b> , 12, 2844-2859	10.7	3
97	Robust controller design for systems with probabilistic uncertain parameters using multi-objective genetic programming. <i>Soft Computing</i> , <b>2021</b> , 25, 233-249	3.5	1
96	Optimal placement and sizing of FACTS devices for optimal power flow in a wind power integrated electrical network. <i>Neural Computing and Applications</i> , <b>2021</b> , 33, 6753-6774	4.8	13
95	A Reinforcement Learning Approach for Optimal Placement of Sensors in Protected Cultivation Systems. <i>IEEE Access</i> , <b>2021</b> , 9, 100781-100800	3.5	2
94	Power Flow Analysis of Islanded Microgrids: A Differential Evolution Approach. <i>IEEE Access</i> , <b>2021</b> , 9, 61731-61738	3.5	3
93	An evolutionary approach to robot scheduling in protected cultivation systems for uninterrupted and maximization of working time. <i>Computers and Electronics in Agriculture</i> , <b>2021</b> , 187, 106231	6.5	0
92	NSGA-II with objective-specific variation operators for multiobjective vehicle routing problem with time windows. <i>Expert Systems With Applications</i> , <b>2021</b> , 176, 114779	7.8	13
91	A Benchmark-Suite of real-World constrained multi-objective optimization problems and some baseline results. <i>Swarm and Evolutionary Computation</i> , <b>2021</b> , 67, 100961	9.8	10

90	An Evolutionary Algorithm for Multi and Many-Objective Optimization With Adaptive Mating and Environmental Selection. <i>IEEE Access</i> , <b>2020</b> , 8, 82781-82796	3.5	8
89	Multi-objective differential evolution algorithm with fuzzy inference-based adaptive mutation factor for Pareto optimum design of suspension system. <i>Swarm and Evolutionary Computation</i> , <b>2020</b> , 54, 100666	9.8	12
88	A test-suite of non-convex constrained optimization problems from the real-world and some baseline results. <i>Swarm and Evolutionary Computation</i> , <b>2020</b> , 56, 100693	9.8	79
87	Multi-objective home appliance scheduling with implicit and interactive user satisfaction modelling. <i>Applied Energy</i> , <b>2020</b> , 267, 114690	10.7	11
86	MOEA with Approximate Nondominated Sorting Based on Sum of Normalized Objectives. <i>Communications in Computer and Information Science</i> , <b>2020</b> , 70-78	0.3	
85	KnEA with Ensemble Approach for Parameter Selection for Many-Objective Optimization. <i>Communications in Computer and Information Science</i> , <b>2020</b> , 703-713	0.3	1
84	A Reference Vector-Based Simplified Covariance Matrix Adaptation Evolution Strategy for Constrained Global Optimization. <i>IEEE Transactions on Cybernetics</i> , <b>2020</b> , PP,	10.2	9
83	Multi-objective optimal power flow solutions using a constraint handling technique of evolutionary algorithms. <i>Soft Computing</i> , <b>2020</b> , 24, 2999-3023	3.5	30
82	$\$I_{\{rm SDE\}} + \$$ An Indicator for Multi and Many-Objective Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2019</b> , 23, 346-352	15.6	71
81	. <i>IEEE Access</i> , <b>2019</b> , 7, 88472-88480	3.5	10
80	A Multi-Start Iterated Local Search Algorithm for the Maximum Scatter Traveling Salesman Problem <b>2019</b> ,		3
79	Precision animal feed formulation: An evolutionary multi-objective approach. <i>Animal Feed Science and Technology</i> , <b>2019</b> , 256, 114211	3	5
78	Ensemble strategies for population-based optimization algorithms □A survey. <i>Swarm and Evolutionary Computation</i> , <b>2019</b> , 44, 695-711	9.8	109
77	An efficient Differential Evolution algorithm for stochastic OPF based active□reactive power dispatch problem considering renewable generators. <i>Applied Soft Computing Journal</i> , <b>2019</b> , 76, 445-458	7.5	37
76	Optimal reactive power dispatch with uncertainties in load demand and renewable energy sources adopting scenario-based approach. <i>Applied Soft Computing Journal</i> , <b>2019</b> , 75, 616-632	7.5	80
75	An improved differential evolution algorithm using efficient adapted surrogate model for numerical optimization. <i>Information Sciences</i> , <b>2018</b> , 451-452, 326-347	7.7	51
74	Optimal power flow solutions using differential evolution algorithm integrated with effective constraint handling techniques. <i>Engineering Applications of Artificial Intelligence</i> , <b>2018</b> , 68, 81-100	7.2	115
73	<b>2018</b> ,		2

72	Pareto Dominance-based MOEA with Multiple Ranking methods for Many-objective Optimization <b>2018</b> ,		3
71	A Switched Parameter Differential Evolution with Multi-donor Mutation and Annealing Based Local Search for Optimization of Lennard-Jones Atomic Clusters <b>2018</b> ,		3
70	Differential Evolution with Stochastic Selection for Uncertain Environments: A Smart Grid Application <b>2018</b> ,		2
69	Interactive livestock feed ration optimization using evolutionary algorithms. <i>Computers and Electronics in Agriculture</i> , <b>2018</b> , 155, 1-11	6.5	19
68	Sensitive deep convolutional neural network for face recognition at large standoffs with small dataset. <i>Expert Systems With Applications</i> , <b>2017</b> , 87, 304-315	7.8	24
67	A switched parameter differential evolution with optional blending crossover for scalable numerical optimization. <i>Applied Soft Computing Journal</i> , <b>2017</b> , 57, 329-352	7.5	30
66	Trajectory-based vehicle tracking at low frame rates. <i>Expert Systems With Applications</i> , <b>2017</b> , 80, 46-57	7.8	14
65	Pareto Dominance-Based Algorithms With Ranking Methods for Many-Objective Optimization. <i>IEEE Access</i> , <b>2017</b> , 5, 11043-11053	3.5	27
64	A multiobjective approach for optimal placement and sizing of distributed generators and capacitors in distribution network. <i>Applied Soft Computing Journal</i> , <b>2017</b> , 60, 268-280	7.5	70
63	A Modified Differential Evolution With Distance-based Selection for Continuous Optimization in Presence of Noise. <i>IEEE Access</i> , <b>2017</b> , 5, 26944-26964	3.5	20
62	Particle swarm optimization with a modified learning strategy and blending crossover <b>2017</b> ,		1
61	Optimal reconfiguration and distributed generator allocation in distribution network using an advanced adaptive differential evolution <b>2017</b> ,		5
60	<b>2017</b> ,		2
59	Particle Swarm Optimization with Ensemble of Inertia Weight Strategies. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 140-147	0.9	3
58	Harmony Search Algorithm with Ensemble of Surrogate Models. <i>Advances in Intelligent Systems and Computing</i> , <b>2016</b> , 19-28	0.4	0
57	Differential evolution with multi-population based ensemble of mutation strategies. <i>Information Sciences</i> , <b>2016</b> , 329, 329-345	7.7	306
56	Rank-Based Nondomination Set Identification with Preprocessing. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 150-157	0.9	
55	Self-adaptive Ensemble Differential Evolution with Sampled Parameter Values for Unit Commitment. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 1-16	0.9	

54	An evolving surrogate model-based differential evolution algorithm. <i>Applied Soft Computing Journal</i> , <b>2015</b> , 34, 770-787	7.5	46
53	A Genetic Algorithm-Based Moving Object Detection for Real-time Traffic Surveillance. <i>IEEE Signal Processing Letters</i> , <b>2015</b> , 22, 1619-1622	3.2	27
52	Human intention understanding based on object affordance and action classification <b>2015</b> ,		5
51	Differential Evolution with Population and Strategy Parameter Adaptation. <i>Mathematical Problems in Engineering</i> , <b>2015</b> , 2015, 1-10	1.1	12
50	Ensemble of Constraint Handling Techniques for Single Objective Constrained Optimization. <i>Infosys Science Foundation Series</i> , <b>2015</b> , 231-248	0.1	3
49	A variable reduction strategy for evolutionary algorithms handling equality constraints. <i>Applied Soft Computing Journal</i> , <b>2015</b> , 37, 774-786	7.5	63
48	Spatial filter and feature selection optimization based on EA for multi-channel EEG. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2015</b> , 2015, 2311-4	0.9	1
47	Differential Evolution with Two Subpopulations. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 1-13	0.9	1
46	Unit commitment - a survey and comparison of conventional and nature inspired algorithms. <i>International Journal of Bio-Inspired Computation</i> , <b>2014</b> , 6, 71	2.9	24
45	Human intention recognition based on eyeball movement pattern and pupil size variation. <i>Neurocomputing</i> , <b>2014</b> , 128, 421-432	5.4	39
44	Driver's lane-change intent identification based on pupillary variation <b>2014</b> ,		6
43	Achieving high robustness and performance in QoS-aware route planning for IPTV networks. <i>Information Sciences</i> , <b>2014</b> , 269, 217-237	7.7	
42	Identification of human implicit visual search intention based on eye movement and pupillary analysis. <i>User Modeling and User-Adapted Interaction</i> , <b>2014</b> , 24, 315-344	3.9	22
41	Gaussian adaptation based parameter adaptation for differential evolution <b>2014</b> ,		14
40	Incremental face recognition using rehearsal and recall processes <b>2014</b> ,		1
39	Goal-oriented behavior sequence generation based on semantic commands using multiple timescales recurrent neural network with initial state correction. <i>Neurocomputing</i> , <b>2014</b> , 129, 67-77	5.4	5
38	Human Implicit Intent Discrimination Using EEG and Eye Movement. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 11-18	0.9	9
37	Evolutionary programming based recommendation system for online shopping <b>2013</b> ,		8

36	Adaptive evolutionary programming with p-best mutation strategy. <i>Swarm and Evolutionary Computation</i> , <b>2013</b> , 9, 58-68	9.8	10
35	Harmony Search Based Parameter Ensemble Adaptation for Differential Evolution. <i>Journal of Applied Mathematics</i> , <b>2013</b> , 2013, 1-12	1.1	12
34	Probing of human implicit intent based on eye movement and pupillary analysis for augmented cognition. <i>International Journal of Imaging Systems and Technology</i> , <b>2013</b> , 23, 114-126	2.5	3
33	Improved Adaptive Differential Evolution Algorithm with External Archive. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 170-178	0.9	2
32	Embedded System for Human Augmented Cognition Based on Face Selective Attention Using Eye Gaze Tracking. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 729-736	0.9	
31	Supervised Multiple Timescale Recurrent Neuron Network Model for Human Action Classification. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 196-203	0.9	1
30	Exogenous and Endogenous Based Spatial Attention Analysis for Human Implicit Intention Understanding. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 137-144	0.9	0
29	Human implicit intent transition detection based on pupillary analysis <b>2012</b> ,		1
28	Efficient constraint handling for optimal reactive power dispatch problems. <i>Swarm and Evolutionary Computation</i> , <b>2012</b> , 5, 28-36	9.8	86
27	Ensemble based face recognition using discriminant PCA Features <b>2012</b> ,		10
26	Surrogate model assisted ensemble differential evolution algorithm <b>2012</b> ,		6
25	Incremental Face Recognition: Hybrid Approach Using Short-Term Memory and Long-Term Memory. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 194-201	0.9	2
24	Probabilistic human intention modeling for cognitive augmentation <b>2012</b> ,		2
23	Identification of Moving Vehicle Trajectory Using Manifold Learning. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 188-195	0.9	3
22	Ensemble strategies in Compact Differential Evolution <b>2011</b> ,		9
21	ROBUST ADAPTIVE BEAMFORMING BASED ON COVARIANCE MATRIX RECONSTRUCTION FOR LOOK DIRECTION MISMATCH. <i>Progress in Electromagnetics Research Letters</i> , <b>2011</b> , 25, 37-46	0.5	20
20	NEAR OPTIMAL ROBUST ADAPTIVE BEAMFORMING APPROACH BASED ON EVOLUTIONARY ALGORITHM. <i>Progress in Electromagnetics Research B</i> , <b>2011</b> , 29, 157-174	0.7	9
19	A DIFFERENTIAL EVOLUTION APPROACH FOR ROBUST ADAPTIVE BEAMFORMING BASED ON JOINT ESTIMATION OF LOOK DIRECTION AND ARRAY GEOMETRY. <i>Progress in Electromagnetics Research</i> , <b>2011</b> , 119, 381-394	3.8	23

18	Super-fit and population size reduction in compact Differential Evolution <b>2011</b> ,		24
17	Global supervision for compact Differential Evolution <b>2011</b> ,		6
16	A differential evolution algorithm with self-adapting strategy and control parameters. <i>Computers and Operations Research</i> , <b>2011</b> , 38, 394-408	4.6	121
15	Differential evolution algorithm with ensemble of parameters and mutation strategies. <i>Applied Soft Computing Journal</i> , <b>2011</b> , 11, 1679-1696	7.5	906
14	Ensemble differential evolution algorithm for CEC2011 problems <b>2011</b> ,		29
13	Recognition of Human's Implicit Intention Based on an Eyeball Movement Pattern Analysis. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 138-145	0.9	5
12	Differential evolution with ensemble of constraint handling techniques for solving CEC 2010 benchmark problems <b>2010</b> ,		49
11	An ensemble of differential evolution algorithms for constrained function optimization <b>2010</b> ,		31
10	Ensemble of Constraint Handling Techniques. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2010</b> , 14, 561-579	15.6	313
9	Ensemble strategies with adaptive evolutionary programming. <i>Information Sciences</i> , <b>2010</b> , 180, 1571-1587	17	91
8	Differential Evolution Algorithm with Ensemble of Parameters and Mutation and Crossover Strategies. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 71-78	0.9	42
7	Constraint Handling in Transmission Network Expansion Planning. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 709-717	0.9	
6	Diversity enhanced Adaptive Evolutionary Programming for solving single objective constrained problems <b>2009</b> ,		5
5	Differential evolution algorithm with ensemble of populations for global numerical optimization. <i>Opsearch</i> , <b>2009</b> , 46, 184-213	1.6	32
4	Multi-objective optimization using self-adaptive differential evolution algorithm <b>2009</b> ,		56
3	Empirical study on the effect of population size on Differential evolution Algorithm <b>2008</b> ,		36
2	Evaluation of novel adaptive evolutionary programming on four constraint handling techniques <b>2008</b> ,		11
1	Multi-objective Lyapunov-based controller design for nonlinear systems via genetic programming. <i>Neural Computing and Applications</i> , 1	4.8	0

