

Erik David Goodman

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/3553780/erik-david-goodman-publications-by-year.pdf>

Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

121 papers	1,802 citations	23 h-index	38 g-index
146 ext. papers	2,384 ext. citations	4.1 avg, IF	5.28 L-index

#	Paper	IF	Citations
121	A Learning-based Innovized Progress Operator for Faster Convergence in Evolutionary Multi-objective Optimization. <i>ACM Transactions on Evolutionary Learning</i> , 2022 , 2, 1-29		5
120	A two-phase framework of locating the reference point for decomposition-based constrained multi-objective evolutionary algorithms. <i>Knowledge-Based Systems</i> , 2022 , 239, 107933	7.3	0
119	A Cooperative Evolutionary Framework Based on an Improved Version of Directed Weight Vectors for Constrained Multiobjective Optimization With Deceptive Constraints. <i>IEEE Transactions on Cybernetics</i> , 2021 , 51, 5546-5558	10.2	6
118	. <i>IEEE Transactions on Evolutionary Computation</i> , 2021 , 25, 277-291	15.6	32
117	Multi-layer hierarchical optimisation of greenhouse climate setpoints for energy conservation and improvement of crop yield. <i>Biosystems Engineering</i> , 2021 , 205, 212-233	4.8	3
116	Embedding a Repair Operator in Evolutionary Single and Multi-objective Algorithms - An Exploitation-Exploration Perspective. <i>Lecture Notes in Computer Science</i> , 2021 , 89-101	0.9	3
115	Hierarchical Topology-Based Cluster Representation for Scalable Evolutionary Multiobjective Clustering. <i>IEEE Transactions on Cybernetics</i> , 2021 , PP,	10.2	4
114	Neural Architecture Transfer. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2021 , 43, 2971-2989	13.3	12
113	A New Many-Objective Evolutionary Algorithm Based on Generalized Pareto Dominance. <i>IEEE Transactions on Cybernetics</i> , 2021 , PP,	10.2	3
112	Combining User Knowledge and Online Innovization for Faster Solution to Multi-objective Design Optimization Problems. <i>Lecture Notes in Computer Science</i> , 2021 , 102-114	0.9	3
111	The (M-1)+1 Framework of Relaxed Pareto Dominance for Evolutionary Many-Objective Optimization. <i>Lecture Notes in Computer Science</i> , 2021 , 349-361	0.9	
110	A novel selection mechanism for evolutionary algorithms with metameric variable-length representations. <i>Soft Computing</i> , 2020 , 24, 16439-16452	3.5	1
109	Handling multi-objective optimization problems with unbalanced constraints and their effects on evolutionary algorithm performance. <i>Swarm and Evolutionary Computation</i> , 2020 , 55, 100676	9.8	11
108	Time and Individual Duration in Genetic Programming. <i>IEEE Access</i> , 2020 , 8, 38692-38713	3.5	6
107	Hybrid Surrogate-Based Constrained Optimization With a New Constraint-Handling Method. <i>IEEE Transactions on Cybernetics</i> , 2020 , PP,	10.2	3
106	NSGANetV2: Evolutionary Multi-objective Surrogate-Assisted Neural Architecture Search. <i>Lecture Notes in Computer Science</i> , 2020 , 35-51	0.9	23
105	A Large-scale Bi-objective Optimization of Solid Rocket Motors Using Innovization 2020 ,		7

104	Evolutionary multi-objective automatic clustering enhanced with quality metrics and ensemble strategy. <i>Knowledge-Based Systems</i> , 2020 , 188, 105018	7.3	17
103	Difficulty Adjustable and Scalable Constrained Multiobjective Test Problem Toolkit. <i>Evolutionary Computation</i> , 2020 , 28, 339-378	4.3	27
102	Evolutionary Dynamic Multiobjective Optimization Assisted by a Support Vector Regression Predictor. <i>IEEE Transactions on Evolutionary Computation</i> , 2020 , 24, 305-319	15.6	31
101	An improved epsilon constraint-handling method in MOEA/D for CMOPs with large infeasible regions. <i>Soft Computing</i> , 2019 , 23, 12491-12510	3.5	61
100	A new dominance-relation metric balancing convergence and diversity in multi- and many-objective optimization. <i>Expert Systems With Applications</i> , 2019 , 134, 14-27	7.8	9
99	A survey of evolutionary algorithms using metameric representations. <i>Genetic Programming and Evolvable Machines</i> , 2019 , 20, 441-478	2	19
98	A novel two-archive matching-based algorithm for multi- and many-objective optimization. <i>Information Sciences</i> , 2019 , 497, 106-128	7.7	2
97	NSGA-Net 2019 ,		114
96	Analysis and multi-objective optimization of a kind of teaching manipulator. <i>Swarm and Evolutionary Computation</i> , 2019 , 50, 100554	9.8	3
95	Push and pull search for solving constrained multi-objective optimization problems. <i>Swarm and Evolutionary Computation</i> , 2019 , 44, 665-679	9.8	99
94	A collaboration-based particle swarm optimizer with history-guided estimation for optimization in dynamic environments. <i>Expert Systems With Applications</i> , 2019 , 120, 1-13	7.8	8
93	Decomposition-based evolutionary dynamic multiobjective optimization using a difference model. <i>Applied Soft Computing Journal</i> , 2019 , 76, 473-490	7.5	34
92	MOEA/D with angle-based constrained dominance principle for constrained multi-objective optimization problems. <i>Applied Soft Computing Journal</i> , 2019 , 74, 621-633	7.5	52
91	A collaboration-based particle swarm optimizer for global optimization problems. <i>International Journal of Machine Learning and Cybernetics</i> , 2019 , 10, 1279-1300	3.8	2
90	Automatic Tobacco Plant Detection in UAV Images via Deep Neural Networks. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2018 , 11, 876-887	4.7	42
89	Improving the performance of genetic algorithms for land-use allocation problems. <i>International Journal of Geographical Information Science</i> , 2018 , 32, 907-930	4.1	25
88	A neighbor-based learning particle swarm optimizer with short-term and long-term memory for dynamic optimization problems. <i>Information Sciences</i> , 2018 , 453, 463-485	7.7	27
87	Control allocation-based adaptive control for greenhouse climate. <i>International Journal of Systems Science</i> , 2018 , 49, 1146-1163	2.3	3

86	Nearly dynamic programming NN-approximationBased optimal control for greenhouse climate: A simulation study. <i>Optimal Control Applications and Methods</i> , 2018 , 39, 638-662	1.7	7
85	Improving greenhouse environmental control using crop-model-driven multi-objective optimization 2018 ,		2
84	Using multi-objective optimization to secure fertile soils across municipalities. <i>Applied Geography</i> , 2018 , 97, 75-84	4.4	10
83	Evolving and Comparing Greenhouse Control Strategies using Model-Based Multi-Objective Optimization 2018 ,		4
82	A differential prediction model for evolutionary dynamic multiobjective optimization 2018 ,		3
81	An adaptive memetic framework for multi-objective combinatorial optimization problems: studies on software next release and travelling salesman problems. <i>Soft Computing</i> , 2017 , 21, 2215-2236	3.5	6
80	Modeling the Tracking Area Planning Problem Using an Evolutionary Multi-Objective Algorithm. <i>IEEE Computational Intelligence Magazine</i> , 2017 , 12, 29-41	5.6	9
79	A novel non-dominated sorting algorithm for evolutionary multi-objective optimization. <i>Journal of Computational Science</i> , 2017 , 23, 31-43	3.4	31
78	Reducing the loss of agricultural productivity due to compact urban development in municipalities of Switzerland. <i>Computers, Environment and Urban Systems</i> , 2017 , 65, 162-177	5.9	13
77	A First-Order Difference Model-Based Evolutionary Dynamic Multiobjective Optimization. <i>Lecture Notes in Computer Science</i> , 2017 , 644-655	0.9	5
76	Greenhouse climate fuzzy adaptive control considering energy saving. <i>International Journal of Control, Automation and Systems</i> , 2017 , 15, 1936-1948	2.9	15
75	Solving metameric variable-length optimization problems using genetic algorithms. <i>Genetic Programming and Evolvable Machines</i> , 2017 , 18, 247-277	2	18
74	Investigating the Effect of Imbalance Between Convergence and Diversity in Evolutionary Multiobjective Algorithms. <i>IEEE Transactions on Evolutionary Computation</i> , 2016 , 1-1	15.6	8
73	Adaptive walking control of biped robots using online trajectory generation method based on neural oscillators. <i>Journal of Bionic Engineering</i> , 2016 , 13, 572-584	2.7	12
72	Generalization of Pareto-Optimality for Many-Objective Evolutionary Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2016 , 20, 299-315	15.6	53
71	A Guiding Evolutionary Algorithm with Greedy Strategy for Global Optimization Problems. <i>Computational Intelligence and Neuroscience</i> , 2016 , 2016, 2565809	3	9
70	Digitization and visualization of greenhouse tomato plants in indoor environments. <i>Sensors</i> , 2015 , 15, 4019-51	3.8	18
69	Optimizing an agent-based traffic evacuation model using genetic algorithms 2015 ,		5

68	Triple Bottomline Many-Objective-Based Decision Making for a Land Use Management Problem. <i>Journal of Multi-Criteria Decision Analysis</i> , 2015 , 22, 133-159	1.9	9
67	Evolutionary design of discrete controllers for hybrid mechatronic systems. <i>International Journal of Systems Science</i> , 2015 , 46, 303-316	2.3	1
66	Introduction to genetic algorithms 2014 ,		7
65	On-line EM Variants for Multivariate Normal Mixture Model in Background Learning and Moving Foreground Detection. <i>Journal of Mathematical Imaging and Vision</i> , 2014 , 48, 114-133	1.6	4
64	NSGA-II-based nonlinear PID controller tuning of greenhouse climate for reducing costs and improving performances. <i>Neural Computing and Applications</i> , 2014 , 24, 927-936	4.8	15
63	Breast Cancer Detection Using Haralick Features of Images Reconstructed from Ultra Wideband Microwave Scans. <i>Lecture Notes in Computer Science</i> , 2014 , 9-16	0.9	4
62	Illumination-Robust Foreground Detection in a Video Surveillance System. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2013 , 23, 1637-1650	6.4	20
61	Integrating a statistical background-foreground extraction algorithm and SVM classifier for pedestrian detection and tracking. <i>Integrated Computer-Aided Engineering</i> , 2013 , 20, 201-216	5.2	45
60	AHP (Analytic Hierarchy Process) and Computer Analysis Software Used in Tourism Safety. <i>Journal of Software</i> , 2013 , 8,	3	1
59	Evolutionary Design of Both Topologies and Parameters of a Hybrid Dynamical System. <i>IEEE Transactions on Evolutionary Computation</i> , 2012 , 16, 391-405	15.6	4
58	Approximating a multi-dimensional Pareto front for a land use management problem: A modified MOEA with an epigenetic silencing metaphor 2012 ,		31
57	Meaningful representation and recombination of variable length genomes 2012 ,		3
56	A fast foreground object detection algorithm using Kernel Density Estimation 2012 ,		6
55	Optimization for Variable-Size Problems Using Genetic Algorithms 2012 ,		2
54	Simultaneous Type and Dimensional Synthesis of Planar 1DOF Mechanisms Using Evolutionary Search and Convertible Agents (DETC2009-86722). <i>Journal of Mechanisms and Robotics</i> , 2010 , 2,	2.2	6
53	Solving multiobjective flexible job-shop scheduling using an adaptive representation 2010 ,		1
52	Genetic Programming-Based Automatic Gait Generation in Joint Space for a Quadruped Robot. <i>Advanced Robotics</i> , 2010 , 24, 2199-2214	1.7	15
51	A control optimization algorithm for greenhouse climate control problems 2010 ,		1

50	Online background learning for illumination-robust foreground detection 2010 ,		1
49	Adaptive representation for flexible job-shop scheduling and rescheduling 2009 ,		2
48	SRDE 2009 ,		6
47	Evolutionary search and convertible agents for the simultaneous type and dimensional synthesis of planar mechanisms 2009 ,		3
46	Non-even spread NSGA-II and its application to conflicting multi-objective compatible control 2009 ,		4
45	Evolved finite state controller for hybrid system 2009 ,		2
44	SRaDE 2009 ,		4
43	Robust engineering design of electronic circuits with active components using genetic programming and bond Graphs 2008 , 185-200		1
42	GPBG: A Framework for Evolutionary Design of Multi-domain Engineering Systems Using Genetic Programming and Bond Graphs. <i>Natural Computing Series</i> , 2008 , 319-345	2.5	2
41	Cooperative bodyBrain coevolutionary synthesis of mechatronic systems. <i>Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM</i> , 2008 , 22, 219-234	1.3	9
40	Automated synthesis of mechanical vibration absorbers using genetic programming. <i>Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM</i> , 2008 , 22, 207-217	1.3	8
39	Structured synthesis of MEMS using evolutionary approaches. <i>Applied Soft Computing Journal</i> , 2008 , 8, 579-589	7.5	19
38	Exploring Building Blocks through Crossover. <i>Lecture Notes in Computer Science</i> , 2008 , 707-714	0.9	1
37	Multi-Level Decomposition for Tractability in Structural Design Optimization. <i>Studies in Computational Intelligence</i> , 2008 , 41-62	0.8	1
36	A Paradigm of Government/Industry/University Cooperation: A PSoC Controller for a NASA Robotic Arm 2007 ,		1
35	Evolutionary Robust Design of Analog Filters Using Genetic Programming. <i>Studies in Computational Intelligence</i> , 2007 , 479-496	0.8	3
34	Epileptic seizure detection using genetically programmed artificial features. <i>IEEE Transactions on Biomedical Engineering</i> , 2007 , 54, 212-24	5	33
33	Learning building block structure from crossover failure 2007 ,		2

32	Introduction to genetic algorithms 2007 ,		2
31	A hands-on paradigm for EAP education: undergraduates, pre-college students, and beyond 2007 ,		5
30	An Evolutionary Approach For Robust Layout Synthesis of MEMS. <i>Studies in Computational Intelligence</i> , 2007 , 519-542	0.8	2
29	On prediction of epileptic seizures by means of genetic programming artificial features. <i>Annals of Biomedical Engineering</i> , 2006 , 34, 515-29	4.7	11
28	Domain Specificity of Genetic Programming Based Automated Synthesis: A Case Study with Synthesis of Mechanical Vibration Absorbers 2006 , 275-290		
27	On Prediction of Epileptic Seizures by Computing Multiple Genetic Programming Artificial Features. <i>Lecture Notes in Computer Science</i> , 2005 , 321-330	0.9	13
26	Topological Synthesis of Robust Dynamic Systems by Sustainable Genetic Programming 2005 , 143-157		0
25	The hierarchical fair competition (HFC) framework for sustainable evolutionary algorithms. <i>Evolutionary Computation</i> , 2005 , 13, 241-77	4.3	59
24	Open-ended robust design of analog filters using genetic programming 2005 ,		17
23	Genetic programming artificial features with applications to epileptic seizure prediction. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2005 , 2005, 4510-3		7
22	Automating the Hierarchical Synthesis of MEMS Using Evolutionary Approaches 2005 , 129-149		
21	Exploring Open-Ended Design Space of Mechatronic Systems. <i>International Journal of Advanced Robotic Systems</i> , 2004 , 1, 24	1.4	7
20	Robust and Efficient Genetic Algorithms with Hierarchical Niching and a Sustainable Evolutionary Computation Model. <i>Lecture Notes in Computer Science</i> , 2004 , 1220-1232	0.9	8
19	A novel evolutionary engineering design approach for mixed-domain systems. <i>Engineering Optimization</i> , 2004 , 36, 127-147	2	21
18	A Statistical Model of GA Dynamics for the OneMax Problem. <i>Lecture Notes in Computer Science</i> , 2004 , 935-946	0.9	
17	Toward a unified and automated design methodology for multi-domain dynamic systems using bond graphs and genetic programming. <i>Mechatronics</i> , 2003 , 13, 851-885	3	59
16	Genetic Algorithm Optimized Feature Transformation A Comparison with Different Classifiers. <i>Lecture Notes in Computer Science</i> , 2003 , 2121-2133	0.9	3
15	System-Level Synthesis of MEMS via Genetic Programming and Bond Graphs. <i>Lecture Notes in Computer Science</i> , 2003 , 2058-2071	0.9	15

14	HEMO: A Sustainable Multi-objective Evolutionary Optimization Framework. <i>Lecture Notes in Computer Science</i> , 2003 , 1029-1040	0.9	6
13	Dense and Switched Modular Primitives for Bond Graph Model Design. <i>Lecture Notes in Computer Science</i> , 2003 , 1764-1775	0.9	4
12	Continuous Hierarchical Fair Competition Model for Sustainable Innovation in Genetic Programming 2003 , 81-98		9
11	Computation of Optimal Workpiece Orientation for Multi-axis NC Machining of Sculptured Part Surfaces. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2002 , 124, 201-212	3	21
10	Optimal design of flywheels using an injection island genetic algorithm. <i>Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM</i> , 1999 , 13, 327-340	1.3	23
9	On the application of cohort-driven operators to continuous optimization problems using evolutionary computation. <i>Lecture Notes in Computer Science</i> , 1998 , 669-681	0.9	3
8	Evaluation of Injection Island GA Performance on Flywheel Design Optimisation 1998 , 121-136		27
7	Predicting conserved water-mediated and polar ligand interactions in proteins using a K-nearest-neighbors genetic algorithm. <i>Journal of Molecular Biology</i> , 1997 , 265, 445-64	6.5	149
6	A model for azinphosmethyl attenuation and movement in a Michigan orchard ecosystem: I. Development and presentation of the experimental data base. <i>Archives of Environmental Contamination and Toxicology</i> , 1983 , 12, 99-110	3.2	3
5	A model for azinphosmethyl attenuation and movement in a Michigan orchard ecosystem: II. Parameterization of a field-based model. <i>Archives of Environmental Contamination and Toxicology</i> , 1983 , 12, 111-119	3.2	2
4	The Effect of Weather on Bioenergetics of Breeding American Woodcock. <i>Journal of Wildlife Management</i> , 1983 , 47, 762	1.9	2
3	A model of mercury contamination in a woodland stream. <i>Ecological Modelling</i> , 1982 , 15, 1-28	3	14
2	Modeling effects of pesticides on populations of soil/litter invertebrates in an orchard ecosystem. <i>Environmental Toxicology and Chemistry</i> , 1982 , 1, 45-60	3.8	6
1	Toward A Model of Detritus Processing in a Woodland Stream. <i>Ecology</i> , 1975 , 56, 141-151	4.6	101