

Markus Olhofer

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

1,930
citations

687220

13
h-index

580701

25
g-index

39
all docs

39
docs citations

39
times ranked

1266
citing authors

#	ARTICLE	IF	CITATIONS
1	A Reference Vector Guided Evolutionary Algorithm for Many-Objective Optimization. IEEE Transactions on Evolutionary Computation, 2016, 20, 773-791.	7.5	1,140
2	A mini-review on preference modeling and articulation in multi-objective optimization: current status and challenges. Complex & Intelligent Systems, 2017, 3, 233-245.	4.0	102
3	Evolutionary Many-Objective Optimization of Hybrid Electric Vehicle Control: From General Optimization to Preference Articulation. IEEE Transactions on Emerging Topics in Computational Intelligence, 2017, 1, 97-111.	3.4	98
4	An adaptive Bayesian approach to surrogate-assisted evolutionary multi-objective optimization. Information Sciences, 2020, 519, 317-331.	4.0	76
5	Kriging-assisted topology optimization of crash structures. Computer Methods in Applied Mechanics and Engineering, 2019, 348, 730-752.	3.4	68
6	Advanced High Turning Compressor Airfoils for Low Reynolds Number Conditionâ€”Part I: Design and Optimization. Journal of Turbomachinery, 2004, 126, 350-359.	0.9	43
7	Benchmark Problems and Performance Indicators for Search of Knee Points in Multiobjective Optimization. IEEE Transactions on Cybernetics, 2020, 50, 3531-3544.	6.2	41
8	Identification of optimal topologies for crashworthiness with the evolutionary level set method. International Journal of Crashworthiness, 2018, 23, 395-416.	1.1	35
9	A Multiobjective Evolutionary Algorithm for Finding Knee Regions Using Two Localized Dominance Relationships. IEEE Transactions on Evolutionary Computation, 2021, 25, 145-158.	7.5	29
10	A Method for a Posteriori Identification of Knee Points Based on Solution Density. , 2018, , .		23
11	Evolutionary Black-Box Topology Optimization: Challenges and Promises. IEEE Transactions on Evolutionary Computation, 2020, 24, 613-633.	7.5	20
12	Knowledge Extraction from Aerodynamic Design Data and its Application to 3D Turbine Blade Geometries. Mathematical Modelling and Algorithms, 2008, 7, 329-350.	0.5	19
13	EVOLUTIONARY LEVEL SET METHOD FOR CRASHWORTHINESS TOPOLOGY OPTIMIZATION. , 2016, , .		19
14	State-based representation for structural topology optimization and application to crashworthiness. , 2016, , .		17
15	Direct Manipulation of Free Form Deformation in Evolutionary Design Optimisation. Lecture Notes in Computer Science, 2006, , 352-361.	1.0	16
16	Automatic preference based multi-objective evolutionary algorithm on vehicle fleet maintenance scheduling optimization. Swarm and Evolutionary Computation, 2021, 65, 100933.	4.5	15
17	On the Impact of Systematic Noise on the Evolutionary Optimization Performanceâ€”A Sphere Model Analysis. Genetic Programming and Evolvable Machines, 2004, 5, 327-360.	1.5	14
18	Transfer learning based surrogate assisted evolutionary bi-objective optimization for objectives with different evaluation times. Knowledge-Based Systems, 2021, 227, 107190.	4.0	14

#	ARTICLE	IF	CITATIONS
19	Preference representation using Gaussian functions on a hyperplane in evolutionary multi-objective optimization. <i>Soft Computing</i> , 2016, 20, 2733-2757.	2.1	12
20	References or Preferences – Rethinking Many-objective Evolutionary Optimization. , 2019, , .		12
21	Hybrid evolutionary approach for level set topology optimization. , 2016, , .		11
22	Learning-based topology variation in evolutionary level set topology optimization. , 2018, , .		11
23	An a priori knee identification multi-objective evolutionary algorithm based on ϵ -dominance. , 2019, , .		11
24	Topology Optimization of 3D-printed joints under crash loads using Evolutionary Algorithms. <i>Structural and Multidisciplinary Optimization</i> , 2021, 64, 4181-4206.	1.7	11
25	Transfer Learning Based Co-Surrogate Assisted Evolutionary Bi-Objective Optimization for Objectives with Non-Uniform Evaluation Times. <i>Evolutionary Computation</i> , 2021, , 221-251.	2.3	9
26	Vehicle Fleet Maintenance Scheduling Optimization by Multi-objective Evolutionary Algorithms. , 2019, , .		8
27	Optimizing the maintenance schedule for a vehicle fleet: a simulation-based case study. <i>Engineering Optimization</i> , 0, , 1-14.	1.5	8
28	Towards identification of solutions of interest for multi-objective problems considering both objective and variable space information. <i>Applied Soft Computing Journal</i> , 2022, 119, 108505.	4.1	8
29	Hybrid Kriging-assisted Level Set Method for Structural Topology Optimization. , 2019, , .		7
30	Autonomous experimental design optimization of a flapping wing. <i>Genetic Programming and Evolvable Machines</i> , 2011, 12, 23-47.	1.5	5
31	Identifying Topological Prototypes using Deep Point Cloud Autoencoder Networks. , 2019, , .		5
32	Evaluation of geometric similarity metrics for structural clusters generated using topology optimization. <i>Applied Intelligence</i> , 2023, 53, 904-929.	3.3	5
33	Towards Time-Series Feature Engineering in Automated Machine Learning for Multi-Step-Ahead Forecasting. , 0, , .		5
34	Identifying solutions of interest for practical many-objective problems using recursive expected marginal utility. , 2019, , .		3
35	Interaction Detection in Aerodynamic Design Data. <i>Lecture Notes in Computer Science</i> , 2009, , 160-167.	1.0	3
36	Hybrid Strategy Coupling EGO and CMA-ES for Structural Topology Optimization in Statics and Crashworthiness. <i>Studies in Computational Intelligence</i> , 2021, , 55-84.	0.7	2

#	ARTICLE	IF	CITATIONS
37	Solution Set Augmentation for Knee Identification in Multiobjective Decision Analysis. IEEE Transactions on Cybernetics, 2023, 53, 2480-2493.	6.2	1