

# Lino Costa

## List of Publications by Citations

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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.

75  
papers

600  
citations

13  
h-index

22  
g-index

86  
ext. papers

703  
ext. citations

2.2  
avg, IF

4.06  
L-index

#	Paper	IF	Citations
75	Evolutionary algorithms approach to the solution of mixed integer non-linear programming problems. <i>Computers and Chemical Engineering</i> , <b>2001</b> , 25, 257-266	4	134
74	Green supply chain design: A mathematical modeling approach based on a multi-objective optimization model. <i>International Journal of Production Economics</i> , <b>2017</b> , 183, 421-432	9.3	65
73	Back analysis of geomechanical parameters by optimisation of a 3D model of an underground structure. <i>Tunnelling and Underground Space Technology</i> , <b>2011</b> , 26, 659-673	5.7	35
72	Back analysis of geomechanical parameters in underground works using an Evolution Strategy algorithm. <i>Tunnelling and Underground Space Technology</i> , <b>2013</b> , 33, 143-158	5.7	30
71	A hybrid genetic pattern search augmented Lagrangian method for constrained global optimization. <i>Applied Mathematics and Computation</i> , <b>2012</b> , 218, 9415-9426	2.7	23
70	Many-objective optimization using differential evolution with variable-wise mutation restriction <b>2013</b> ,		21
69	Coordination of User and Agency Costs Using Two-Level Approach for Pavement Management Optimization. <i>Transportation Research Record</i> , <b>2017</b> , 2639, 110-118	1.7	18
68	Multiple- and single-objective approaches to laminate optimization with genetic algorithms. <i>Structural and Multidisciplinary Optimization</i> , <b>2004</b> , 27, 55-65	3.6	18
67	Clustering-Based Selection for Evolutionary Many-Objective Optimization. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 538-547	0.9	16
66	An adaptive sharing elitist evolution strategy for multiobjective optimization. <i>Evolutionary Computation</i> , <b>2003</b> , 11, 417-38	4.3	15
65	Head motion stabilization during quadruped robot locomotion: Combining dynamical systems and a genetic algorithm <b>2009</b> ,		14
64	Hybridization between multi-objective genetic algorithm and support vector machine for feature selection in walker-assisted gait. <i>Computer Methods and Programs in Biomedicine</i> , <b>2014</b> , 113, 736-48	6.9	13
63	Automatic generation of biped locomotion controllers using genetic programming. <i>Robotics and Autonomous Systems</i> , <b>2014</b> , 62, 1531-1548	3.5	13
62	Multi-objective parameter CPG optimization for gait generation of a biped robot <b>2013</b> ,		11
61	Self-adaptive MOEA feature selection for classification of bankruptcy prediction data. <i>Scientific World Journal, The</i> , <b>2014</b> , 2014, 314728	2.2	10
60	An adaptive constraint handling technique for evolutionary algorithms. <i>Optimization</i> , <b>2013</b> , 62, 241-253	1.2	10
59	An approach to improving software inspections performance <b>2010</b> ,		10

58	An alternative method for global and partial comparison of two diagnostic systems based on ROC curves. <i>Journal of Statistical Computation and Simulation</i> , <b>2013</b> , 83, 307-325	0.9	9
57	Modeling and numerical study of actuator and sensor effects for a laminated piezoelectric plate. <i>Computers and Structures</i> , <b>2007</b> , 85, 385-403	4.5	9
56	Adapting Biped Locomotion to Sloped Environments. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , <b>2015</b> , 80, 625-640	2.9	8
55	Multi-objective parameter CPG optimization for gait generation of a quadruped robot considering behavioral diversity <b>2011</b> ,		8
54	Many-objective optimization of build part orientation in additive manufacturing. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2021</b> , 112, 747-762	3.2	8
53	An evolution strategy for multiobjective optimization		6
52	Feature reduction and multi-classification of different assistive devices according to the gait pattern. <i>Disability and Rehabilitation: Assistive Technology</i> , <b>2016</b> , 11, 202-18	1.8	5
51	A New Hybrid Evolutionary Multiobjective Algorithm Guided by Descent Directions. <i>Mathematical Modelling and Algorithms</i> , <b>2013</b> , 12, 233-251		5
50	Multiobjective Optimization of a Quadruped Robot Locomotion Using a Genetic Algorithm. <i>Advances in Intelligent and Soft Computing</i> , <b>2011</b> , 427-436		5
49	Dimension reduction in multiobjective optimization. <i>Proceedings in Applied Mathematics and Mechanics</i> , <b>2007</b> , 7, 2060047-2060048	0.2	5
48	A Multi-objective Approach to Solve the Build Orientation Problem in Additive Manufacturing. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 261-276	0.9	5
47	On Challenging Techniques for Constrained Global Optimization. <i>Intelligent Systems Reference Library</i> , <b>2013</b> , 641-671	0.8	5
46	An Elitist Genetic Algorithm for Multiobjective Optimization. <i>Applied Optimization</i> , <b>2003</b> , 217-236		5
45	Comparing AHP and ELECTRE I for prioritizing software requirements <b>2015</b> ,		4
44	Assessment of Different Genetic Algorithms for Pavement Management Systems <b>2016</b> ,		4
43	MOEA/VAN <b>2015</b> ,		3
42	Stochastic algorithms assessment using performance profiles <b>2011</b> ,		3
41	Multimodal saliency-based attention for object-based scene analysis <b>2011</b> ,		3

40	A Multi-objective Approach to the Optimization of Home Care Visits Scheduling <b>2019</b> ,		3
39	MOEA/PC: Multiobjective Evolutionary Algorithm Based on Polar Coordinates. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 141-155	0.9	3
38	Using a Genetic Algorithm to Solve a Bi-Objective WWTP Process Optimization. <i>Operations Research Proceedings: Papers of the Annual Meeting = Vorträge Der Jahrestagung / DGOR</i> , <b>2011</b> , 359-364	0.1	3
37	Skill Memory in Biped Locomotion. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , <b>2016</b> , 82, 379-397	2.9	2
36	Feature reduction with PCA/KPCA for gait classification with different assistive devices. <i>International Journal of Intelligent Computing and Cybernetics</i> , <b>2015</b> , 8, 363-382	2.2	2
35	Path integral learning of multidimensional movement trajectories <b>2013</b> ,		2
34	Biplots in offline multiobjective reduction <b>2010</b> ,		2
33	Multiobjective optimization: Redundant and informative objectives <b>2009</b> ,		2
32	Actuator Effect of a Piezoelectric Anisotropic Plate Model. <i>Mechanics of Advanced Materials and Structures</i> , <b>2006</b> , 13, 403-417	1.8	2
31	A Scalarized Augmented Lagrangian Algorithm (SCAL) for Multi-objective Optimization Constrained Problems <b>2018</b> ,		2
30	A prototype/demonstrator tool to perform the resources selection in distributed/agile/virtual enterprises. <i>International Journal of Business Excellence</i> , <b>2016</b> , 9, 364	0.7	2
29	Application of the Simulated Annealing Algorithm to Minimize the makespan on the Unrelated Parallel Machine Scheduling Problem with Setup Times. <i>Advances in Intelligent Systems and Computing</i> , <b>2020</b> , 398-407	0.4	2
28	Development of a Strategy to Predict and Detect Falls Using Wearable Sensors. <i>Journal of Medical Systems</i> , <b>2019</b> , 43, 134	5.1	1
27	Biped locomotion - Improvement and adaptation <b>2014</b> ,		1
26	Using Cost-regularized Kernel Regression with a high number of samples <b>2014</b> ,		1
25	Two Approaches for the Resolution of a Resources System Selection Problem for Distributed/Agile/Virtual Enterprises [A Contribution to the Broker Performance. <i>Procedia Technology</i> , <b>2014</b> , 16, 906-912		1
24	Multivariate analysis of walker-assisted ambulation <b>2013</b> ,		1
23	Self-improving biped locomotion <b>2013</b> ,		1

22	Quadruped Robot Locomotion using a Global Optimization Stochastic Algorithm <b>2011</b> ,		1
21	Sensitivity analysis of multi-objective optimization of CPG parameters for quadruped robot locomotion <b>2012</b> ,		1
20	Multivariate Analysis to Assist Decision-Making in Many-objective Engineering Optimization Problems. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 274-288	0.9	1
19	Applying an Elitist Electromagnetism-Like Algorithm to Head Robot Stabilization. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 343-357	0.9	1
18	Skill Memory in Biped Locomotion <b>2016</b> , 82, 379		1
17	A Framework for Time-Cost-Quality Optimization in Project Management Problems Using an Exploratory Grid Concept in the Multi-Objective Simulated-Annealing. <i>International Journal of Information Technology and Decision Making</i> , <b>2021</b> , 20, 1095-1120	2.8	1
16	Benchmarking deterministic optimization algorithms using an outranking approach. <i>Optimization Methods and Software</i> , <b>2016</b> , 31, 1149-1168	1.3	1
15	Multiobjective optimization of transit bus fleets with alternative fuel options: The case of Joinville, Brazil. <i>International Journal of Sustainable Transportation</i> , <b>2020</b> , 14, 14-24	3.6	1
14	A hybrid bi-objective optimization approach for joint determination of safety stock and safety time buffers in multi-item single-stage industrial supply chains. <i>Computers and Industrial Engineering</i> , <b>2022</b> , 168, 108095	6.4	1
13	Multi-Objective Optimization of Plastics Thermoforming. <i>Mathematics</i> , <b>2021</b> , 9, 1760	2.3	0
12	Improving Inventory Management in an Automotive Supply Chain: A Multi-objective Optimization Approach Using a Genetic Algorithm. <i>Springer Proceedings in Mathematics and Statistics</i> , <b>2019</b> , 143-157	0.2	
11	Bus Fleet Management Optimization Using the Augmented Weighted Tchebycheff Method. <i>Springer Proceedings in Mathematics and Statistics</i> , <b>2018</b> , 201-213	0.2	
10	Generalized Multiobjective Evolutionary Algorithm Guided by Descent Directions. <i>Mathematical Modelling and Algorithms</i> , <b>2014</b> , 13, 387-403		
9	Multi-objective Robustness Analysis of the Polymer Extrusion Process. <i>Space Technology Proceedings</i> , <b>2021</b> , 85-95		
8	Tuning Parameters of Evolutionary Algorithms Using ROC Analysis. <i>Advances in Soft Computing</i> , <b>2009</b> , 217-222		
7	Solving Multiobjective Engineering Design Problems Through a Scalarized Augmented Lagrangian Algorithm (SCAL). <i>Computational Methods in Applied Sciences (Springer)</i> , <b>2021</b> , 51-68	0.4	
6	Feature Selection Optimization for Breast Cancer Diagnosis. <i>Communications in Computer and Information Science</i> , <b>2021</b> , 492-506	0.3	
5	Path Generation, Control, and Monitoring. <i>Advanced Structured Materials</i> , <b>2020</b> , 203-236	0.6	

4 Head Motion Stabilization During Quadruped Robot Locomotion **2014**, 41-65

3 A Multivariate Analysis Approach to Diamonds Pricing Using Dummy Variables in SPSS. *Lecture Notes in Computer Science*, **2021**, 609-623 0.9

2 Feature Selection Optimization of Risk Factors for Coronary Heart Disease. *Lecture Notes in Computer Science*, **2021**, 413-428 0.9

1 Implementation of Robust Multi-objective Optimization in the Build Orientation Problem. *Lecture Notes in Computer Science*, **2021**, 247-259 0.9