

Jaime Arturo Ramirez

List of Publications by Year in descending order

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50
papers

995
citations

567281

15
h-index

454955

30
g-index

50
all docs

50
docs citations

50
times ranked

805
citing authors

#	ARTICLE	IF	CITATIONS
1	Improvements in genetic algorithms. IEEE Transactions on Magnetics, 2001, 37, 3414-3417.	2.1	193
2	A clonal selection algorithm for optimization in electromagnetics. IEEE Transactions on Magnetics, 2005, 41, 1736-1739.	2.1	102
3	Feature extraction in Brazilian Sign Language Recognition based on phonological structure and using RGB-D sensors. Expert Systems With Applications, 2014, 41, 7259-7271.	7.6	87
4	Explaining machine learning based diagnosis of COVID-19 from routine blood tests with decision trees and criteria graphs. Computers in Biology and Medicine, 2021, 132, 104335.	7.0	58
5	A multiobjective methodology for evaluating genetic operators. IEEE Transactions on Magnetics, 2003, 39, 1321-1324.	2.1	53
6	A modified immune network algorithm for multimodal electromagnetic problems. IEEE Transactions on Magnetics, 2006, 42, 1111-1114.	2.1	42
7	A Meshless Method for Electromagnetic Field Computation Based on the Multiquadric Technique. IEEE Transactions on Magnetics, 2007, 43, 1281-1284.	2.1	41
8	Multiobjective approaches for robust electromagnetic design. IEEE Transactions on Magnetics, 2006, 42, 1207-1210.	2.1	40
9	Optimization of Cost Functions Using Evolutionary Algorithms With Local Learning and Local Search. IEEE Transactions on Magnetics, 2007, 43, 1641-1644.	2.1	37
10	Pareto Cone $\hat{\mu}$ -Dominance: Improving Convergence and Diversity in Multiobjective Evolutionary Algorithms. Lecture Notes in Computer Science, 2011, , 76-90.	1.3	37
11	A comparison of dominance criteria in many-objective optimization problems. , 2011, , .		32
12	Multiobjective Memetic Algorithms With Quadratic Approximation-Based Local Search for Expensive Optimization in Electromagnetics. IEEE Transactions on Magnetics, 2008, 44, 1126-1129.	2.1	28
13	Unmanned-Aerial-Vehicle Routing Problem With Mobile Charging Stations for Assisting Search and Rescue Missions in Postdisaster Scenarios. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 6682-6696.	9.3	27
14	A multiobjective proposal for the TEAM benchmark problem 22. IEEE Transactions on Magnetics, 2006, 42, 1471-1474.	2.1	25
15	A Distributed Clonal Selection Algorithm for Optimization in Electromagnetics. IEEE Transactions on Magnetics, 2009, 45, 1598-1601.	2.1	24
16	A new constrained ellipsoidal algorithm for nonlinear optimization with equality constraints. IEEE Transactions on Magnetics, 2003, 39, 1289-1292.	2.1	17
17	Optimization of electromagnetic devices using computational intelligence techniques. IEEE Transactions on Magnetics, 1999, 35, 3727-3729.	2.1	13
18	Multiobjective vehicle routing problem with fixed delivery and optional collections. Optimization Letters, 2013, 7, 1419-1431.	1.6	13

#	ARTICLE	IF	CITATIONS
19	Ant colony optimization for the topological design of interior permanent magnet (IPM) machines. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2014, 33, 927-940.	0.9	12
20	Hybrid optimization in electromagnetics using sensitivity information from a neuro-fuzzy model. IEEE Transactions on Magnetics, 2000, 36, 1061-1065.	2.1	9
21	An object-oriented library based on computational intelligence techniques for optimization in electromagnetics. IEEE Transactions on Magnetics, 2003, 39, 2121-2124.	2.1	9
22	A hybrid methodology for fuzzy optimization of electromagnetic devices. IEEE Transactions on Magnetics, 2005, 41, 1744-1747.	2.1	9
23	Shape optimization of electromagnetic devices including eddy-currents. IEEE Transactions on Magnetics, 1995, 31, 1948-1951.	2.1	8
24	Analysis of the Computational Cost of Approximation-Based Hybrid Evolutionary Algorithms in Electromagnetic Design. IEEE Transactions on Magnetics, 2008, 44, 1130-1133.	2.1	8
25	A Differential Mutation operator for the archive population of multi-objective evolutionary algorithms. , 2009, , .		8
26	A Head Model for the Calculation of SAR and Temperature Rise Induced by Cellular Phones. IEEE Transactions on Magnetics, 2008, 44, 1446-1449.	2.1	7
27	Hybrid Estimation of Distribution Algorithm Using Local Function Approximations. IEEE Transactions on Magnetics, 2009, 45, 1558-1561.	2.1	5
28	Dynamic Multiobjective Clonal Selection Algorithm for Engineering Design. IEEE Transactions on Magnetics, 2010, 46, 3033-3036.	2.1	5
29	An Efficient Genetic Algorithm for the Design of Hub-and-Spoke Networks. IEEE Communications Letters, 2013, 17, 793-796.	4.1	5
30	A statistical study of discrete differential evolution approaches for the capacitated vehicle routing problem.. , 2013, , .		5
31	Hybrid genetic algorithms using quadratic local search operators. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2007, 26, 773-787.	0.9	3
32	Multi-domain topology optimization with ant colony systems. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2011, 30, 1792-1803.	0.9	3
33	A New Algorithm Based on Differential Evolution for Combinatorial Optimization. , 2013, , .		3
34	Combinatorial optimization with differential evolution. , 2014, , .		3
35	Numerical study of treatment chambers for single and multi-stage pulsed electric field systems. IET Science, Measurement and Technology, 2021, 15, 385-397.	1.6	3
36	Computational modelling approach for the optimisation of a pulsed electric field system for liquid foods. IET Science, Measurement and Technology, 2019, 13, 337-345.	1.6	3

#	ARTICLE	IF	CITATIONS
37	Sonomagnetic field characterisation from induced, radial current waves. IEEE Transactions on Magnetism, 1996, 32, 1022-1025.	2.1	2
38	Optimise: A Computational Environment for Teaching Optimization in Electrical Engineering. IEEE Transactions on Magnetism, 2004, 40, 695-698.	2.1	2
39	A Pruning Method for Neural Networks and Its Application for Optimization in Electromagnetics. IEEE Transactions on Magnetism, 2004, 40, 1160-1163.	2.1	2
40	New operators for multi-objective clonal selection algorithms. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2009, 28, 833-850.	0.9	2
41	Investigation of the electroporation effect in a single cell. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2013, 32, 1692-1706.	0.9	2
42	Variability analysis of complex networks measures based on stochastic distances. Physica A: Statistical Mechanics and Its Applications, 2014, 415, 73-86.	2.6	2
43	A multiobjective robust controller synthesis approach aided by multicriteria decision analysis. Applied Soft Computing Journal, 2017, 60, 374-386.	7.2	2
44	Analysis of Approximation-Based Memetic Algorithms for Engineering Optimization. Adaptation, Learning, and Optimization, 2010, , 163-191.	0.6	2
45	Optimization in electromagnetics using the Real-coded Clonal Selection Algorithm. , 2008, , .		1
46	A new self-adaptive approach for evolutionary multiobjective optimization. , 2010, , .		1
47	FEM-ABC and MFCM techniques applied to the solution of 2D scattering problems. IEEE Transactions on Magnetism, 2000, 36, 931-937.	2.1	0
48	A Java platform for the implementation of the finite-difference time-domain method. , 2011, , .		0
49	Determination of the temperature increase in the human eye due to electromagnetic fields. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2015, 34, 1489-1500.	0.9	0
50	Evaluation of the Current in the Cell Membrane for Numerical Simulations of Electroporation. Journal of Microwaves, Optoelectronics and Electromagnetic Applications, 2022, 21, 61-82.	0.7	0