Jaime Arturo Ramirez

List of Publications by Year
in descending order

50	995	567281 15	454955 30
papers	citations	h-index	g-index

50	50	50	805
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	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
3	Numerical study of treatment chambers for single and multiâ€stage pulsed electric field systems. IET Science, Measurement and Technology, 2021, 15, 385-397.	1.6	3
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	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
6	A multiobjective robust controller synthesis approach aided by multicriteria decision analysis. Applied Soft Computing Journal, 2017, 60, 374-386.	7.2	2
7	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
8	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
9	Combinatorial optimization with differential evolution. , 2014, , .		3
10	Variability analysis of complex networks measures based on stochastic distances. Physica A: Statistical Mechanics and Its Applications, 2014, 415, 73-86.	2.6	2
11	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
12	Multiobjective vehicle routing problem with fixed delivery and optional collections. Optimization Letters, 2013, 7, 1419-1431.	1.6	13
13	An Efficient Genetic Algorithm for the Design of Hub-and-Spoke Networks. IEEE Communications Letters, 2013, 17, 793-796.	4.1	5
14	A statistical study of discrete differential evolution approaches for the capacitated vehicle routing problem.. , 2013, , .		5
15	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
16	A New Algorithm Based on Differential Evolution for Combinatorial Optimization. , 2013, , .		3
17	A Java platform for the implementation of the finite-difference time-domain method. , 2011, , .		0
18	A comparison of dominance criteria in many-objective optimization problems. , 2011, , .		32

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19	Multiâ€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
20	Pareto Cone Îµ-Dominance: Improving Convergence and Diversity in Multiobjective Evolutionary Algorithms. Lecture Notes in Computer Science, 2011, , 76-90.	1.3	37
21	Dynamic Multiobjective Clonal Selection Algorithm for Engineering Design. IEEE Transactions on Magnetics, 2010, 46, 3033-3036.	2.1	5
22	A new self-adaptive approach for evolutionary multiobjective optimization. , 2010, , .		1
23	Analysis of Approximation-Based Memetic Algorithms for Engineering Optimization. Adaptation, Learning, and Optimization, 2010, , 163-191.	0.6	2
24	A Differential Mutation operator for the archive population of multi-objective evolutionary algorithms. , 2009, , .		8
25	Hybrid Estimation of Distribution Algorithm Using Local Function Approximations. IEEE Transactions on Magnetics, 2009, 45, 1558-1561.	2.1	5
26	A Distributed Clonal Selection Algorithm for Optimization in Electromagnetics. IEEE Transactions on Magnetics, 2009, 45, 1598-1601.	2.1	24
27	New operators for multiâ€objective clonal selection algorithms. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2009, 28, 833-850.	0.9	2
28	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
29	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
30	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
31	Optimization in electromagnetics using the Real-coded Clonal Selection Algorithm. , 2008, , .		1
32	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
33	A Meshless Method for Electromagnetic Field Computation Based on the Multiquadric Technique. IEEE Transactions on Magnetics, 2007, 43, 1281-1284.	2.1	41
34	Optimization of Cost Functions Using Evolutionary Algorithms With Local Learning and Local Search. IEEE Transactions on Magnetics, 2007, 43, 1641-1644.	2.1	37
35	A multiobjective proposal for the TEAM benchmark problem 22. IEEE Transactions on Magnetics, 2006, 42, 1471-1474.	2.1	25
36	Multiobjective approaches for robust electromagnetic design. IEEE Transactions on Magnetics, 2006, 42, 1207-1210.	2.1	40

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37	A modified immune network algorithm for multimodal electromagnetic problems. IEEE Transactions on Magnetics, 2006, 42, 1111-1114.	2.1	42
38	A hybrid methodology for fuzzy optimization of electromagnetic devices. IEEE Transactions on Magnetics, 2005, 41, 1744-1747.	2.1	9
39	A clonal selection algorithm for optimization in electromagnetics. IEEE Transactions on Magnetics, 2005, 41, 1736-1739.	2.1	102
40	Optimise: A Computational Environment for Teaching Optimization in Electrical Engineering. IEEE Transactions on Magnetics, 2004, 40, 695-698.	2.1	2
41	A Pruning Method for Neural Networks and Its Application for Optimization in Electromagnetics. IEEE Transactions on Magnetics, 2004, 40, 1160-1163.	2.1	2
42	An object-oriented library based on computational intelligence techniques for optimization in electromagnetics. IEEE Transactions on Magnetics, 2003, 39, 2121-2124.	2.1	9
43	A new constrained ellipsoidal algorithm for nonlinear optimization with equality constraints. IEEE Transactions on Magnetics, 2003, 39, 1289-1292.	2.1	17
44	A multiobjective methodology for evaluating genetic operators. IEEE Transactions on Magnetics, 2003, 39, 1321-1324.	2.1	53
45	Improvements in genetic algorithms. IEEE Transactions on Magnetics, 2001, 37, 3414-3417.	2.1	193
46	FEM-ABC and MFCM techniques applied to the solution of 2D scattering problems. IEEE Transactions on Magnetics, 2000, 36, 931-937.	2.1	0
47	Hybrid optimization in electromagnetics using sensitivity information from a neuro-fuzzy model. IEEE Transactions on Magnetics, 2000, 36, 1061-1065.	2.1	9
48	Optimization of electromagnetic devices using computational intelligence techniques. IEEE Transactions on Magnetics, 1999, 35, 3727-3729.	2.1	13
49	Sonomagnetic field characterisation from induced, radial current waves. IEEE Transactions on Magnetics, 1996, 32, 1022-1025.	2.1	2
50	Shape optimization of electromagnetic devices including eddy-currents. IEEE Transactions on Magnetics, 1995, 31, 1948-1951.	2.1	8