

# Juan Frausto-Solis

## List of Publications by Year in descending order

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68  
papers

502  
citations

932766

10  
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752256

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71  
docs citations

71  
times ranked

416  
citing authors

#	ARTICLE	IF	CITATIONS
1	SAIPO-TAIPO and Genetic Algorithms for Investment Portfolios. <i>Axioms</i> , 2022, 11, 42.	0.9	2
2	Three Hybrid Scatter Search Algorithms for Multi-Objective Job Shop Scheduling Problem. <i>Axioms</i> , 2022, 11, 61.	0.9	4
3	FCTA: A Forecasting Combined Methodology with a Threshold Accepting Approach. <i>Mathematical Problems in Engineering</i> , 2022, 2022, 1-19.	0.6	0
4	Chaotic Multi-Objective Simulated Annealing and Threshold Accepting for Job Shop Scheduling Problem. <i>Mathematical and Computational Applications</i> , 2021, 26, 8.	0.7	10
5	Convolutional Neural Network Component Transformation (CNN-CT) for Confirmed COVID-19 Cases. <i>Mathematical and Computational Applications</i> , 2021, 26, 29.	0.7	6
6	A Peptides Prediction Methodology for Tertiary Structure Based on Simulated Annealing. <i>Mathematical and Computational Applications</i> , 2021, 26, 39.	0.7	3
7	NeuroFramework: A package based on neuroevolutionary algorithms to estimate the melting temperature of ionic liquids. <i>SoftwareX</i> , 2020, 11, 100448.	1.2	6
8	Time Series Complexities and Their Relationship to Forecasting Performance. <i>Entropy</i> , 2020, 22, 89.	1.1	14
9	Melting Temperature Estimation of Imidazole Ionic Liquids with Clustering Methods. <i>Journal of Chemical Information and Modeling</i> , 2019, 59, 3144-3153.	2.5	12
10	Hurst Exponent with ARIMA and Simple Exponential Smoothing for Measuring Persistency of M3-Competition Series. <i>IEEE Latin America Transactions</i> , 2019, 17, 815-822.	1.2	1
11	GRSA Enhanced for Protein Folding Problem in the Case of Peptides. <i>Axioms</i> , 2019, 8, 136.	0.9	2
12	Comparative Study of Computational Strategies for Protein Structure Prediction. <i>Studies in Computational Intelligence</i> , 2018, , 449-459.	0.7	1
13	Comparative Study of ARIMA Methods for Forecasting Time Series of the Mexican Stock Exchange. <i>Studies in Computational Intelligence</i> , 2018, , 475-485.	0.7	5
14	Protein Folding Problem in the Case of Peptides Solved by Hybrid Simulated Annealing Algorithms. <i>Studies in Computational Intelligence</i> , 2018, , 141-152.	0.7	1
15	A Predictive Model for Guillain-Barré Syndrome Based on Single Learning Algorithms. <i>Computational and Mathematical Methods in Medicine</i> , 2017, 2017, 1-9.	0.7	6
16	AMOS with Analytical Tuning Parameters for Heterogeneous Computing Scheduling Problem. <i>Studies in Computational Intelligence</i> , 2017, , 701-711.	0.7	1
17	Implementation of an Information Retrieval System Using the Soft Cosine Measure. <i>Studies in Computational Intelligence</i> , 2017, , 757-766.	0.7	2
18	Multiphase Simulated Annealing Based on Boltzmann and Bose-Einstein Distribution Applied to Protein Folding Problem. <i>Advances in Bioinformatics</i> , 2016, 2016, 1-16.	5.7	3

#	ARTICLE	IF	CITATIONS
19	Combination of Trees for Guillain-Barré Subtype Classification. Advances in Intelligent Systems and Computing, 2016, , 71-78.	0.5	0
20	Golden Ratio Simulated Annealing for Protein Folding Problem. International Journal of Computational Methods, 2015, 12, 1550037.	0.8	7
21	EMRlog Method for Computer Security for Electronic Medical Records with Logic and Data Mining. BioMed Research International, 2015, 2015, 1-12.	0.9	1
22	A Kernel-Based Predictive Model for Guillain-Barré Syndrome. Lecture Notes in Computer Science, 2015, , 270-281.	1.0	0
23	Forecasting Oil Production Time Series with a Population-Based Simulated Annealing Method. Arabian Journal for Science and Engineering, 2015, 40, 1081-1096.	1.1	16
24	Towards a predictive model for Guillain-Barré syndrome. , 2015, 2015, 7234-7.		6
25	Volatility Forecasting Using Support Vector Regression and a Hybrid Genetic Algorithm. Computational Economics, 2015, 45, 111-133.	1.5	20
26	TwoPILP: An Integer Programming Method for HCSP in Parallel Computing Centers. Lecture Notes in Computer Science, 2015, , 463-474.	1.0	0
27	Attribute Selection Impact on Linear and Nonlinear Regression Models for Crop Yield Prediction. Scientific World Journal, The, 2014, 2014, 1-10.	0.8	36
28	Chaotic Multiquenched Annealing Applied to the Protein Folding Problem. Scientific World Journal, The, 2014, 2014, 1-11.	0.8	5
29	Feature Selection for Better Identification of Subtypes of Guillain-Barré Syndrome. Computational and Mathematical Methods in Medicine, 2014, 2014, 1-9.	0.7	10
30	Predictive ability of machine learning methods for massive crop yield prediction. Spanish Journal of Agricultural Research, 2014, 12, 313.	0.3	141
31	Threshold temperature tuning Simulated Annealing for Protein Folding Problem in small peptides. Computational and Applied Mathematics, 2013, 32, 471-482.	1.3	3
32	Application of formal languages in polynomial transformations of instances between NP-complete problems. Journal of Zhejiang University: Science C, 2013, 14, 623-633.	0.7	0
33	Markov decision processes for infinite horizon problems solved with the cosine simplex method. Optimization, 2012, 61, 1133-1150.	1.0	0
34	Survey of polynomial transformations between NP-complete problems. Journal of Computational and Applied Mathematics, 2011, 235, 4851-4865.	1.1	7
35	A genetic distance metric to discriminate the selection of algorithms for the general ATSP problem. Journal of Intelligent and Fuzzy Systems, 2010, 21, 57-64.	0.8	0
36	A New Method for Optimal Cropping Pattern. Lecture Notes in Computer Science, 2009, , 566-577.	1.0	5

#	ARTICLE	IF	CITATIONS
37	Using Wolfe's Method in Support Vector Machines Learning Stage. Lecture Notes in Computer Science, 2009, , 488-499.	1.0	0
38	MultiQuenching Annealing Algorithm for Protein Folding Problem. Lecture Notes in Computer Science, 2009, , 578-589.	1.0	3
39	Cosine Policy Iteration for Solving Infinite-Horizon Markov Decision Processes. Lecture Notes in Computer Science, 2009, , 75-86.	1.0	1
40	Simulated Annealing for SAT Problems Using Dynamic Markov Chains with Linear Regression Equilibrium. , 2008, , .		1
41	A Logic Formal Validation Model for the Explanations Generation in an Intelligent Assistant. , 2008, , .		2
42	Branch and Bound Hybrid Algorithm to Determine the Exact or Approximate Solution of the 0/1 Knapsack Problem with One Parameter. , 2008, , .		1
43	An Efficient Simulated Annealing Algorithm for Feasible Solutions of Course Timetabling. Lecture Notes in Computer Science, 2008, , 675-685.	1.0	10
44	Golden Ratio Annealing for Satisfiability Problems Using Dynamically Cooling Schemes. , 2008, , 215-224.		4
45	An Application of Causality for Representing and Providing Formal Explanations about the Behavior of the Threshold Accepting Algorithm. Lecture Notes in Computer Science, 2008, , 1087-1098.	1.0	3
46	An Improved Simplex-Genetic Method to Solve Hard Linear Programming Problems. Lecture Notes in Computer Science, 2007, , 981-988.	1.0	1
47	Analytically Tuned Simulated Annealing Applied to the Protein Folding Problem. Lecture Notes in Computer Science, 2007, , 370-377.	1.0	7
48	A Partition Rule for SAT Solvers: The Multiple Partition Rule (MPR). , 2007, , .		0
49	Experimental Analysis of a Neighborhood Generation Mechanism Applied to Scheduling Problem. , 2006, , .		0
50	A New Algorithm That Obtains an Approximation of the Critical Path in the Job Shop Scheduling Problem. Lecture Notes in Computer Science, 2006, , 450-460.	1.0	1
51	Design of a Shared Ontology Used for Translating Negotiation Primitives. Lecture Notes in Computer Science, 2006, , 169-178.	1.0	1
52	Modeling Multiple Interactions Using Coloured Petri Nets: A Case Study. Lecture Notes in Computer Science, 2005, , 182-193.	1.0	1
53	Increasing the Training Speed of SVM, the Zoutendijk Algorithm Case. Lecture Notes in Computer Science, 2005, , 312-320.	1.0	3
54	An Approach for Solving Very Large Scale Instances of the Design Distribution Problem for Distributed Database Systems. Lecture Notes in Computer Science, 2005, , 33-42.	1.0	1

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55	Solving SAT Problems with TA Algorithms Using Constant and Dynamic Markov Chains Length. Lecture Notes in Computer Science, 2005, , 281-290.	1.0	2
56	A Machine Learning Approach for Modeling Algorithm Performance Predictors. Lecture Notes in Computer Science, 2004, , 70-80.	1.0	5
57	Comparison and Selection of Exact and Heuristic Algorithms. Lecture Notes in Computer Science, 2004, , 415-424.	1.0	6
58	A Method to Establish the Cooling Scheme in Simulated Annealing Like Algorithms. Lecture Notes in Computer Science, 2004, , 755-763.	1.0	19
59	A Reduced Codification for the Logical Representation of Job Shop Scheduling Problems. Lecture Notes in Computer Science, 2004, , 553-562.	1.0	2
60	A Statistical Approach for Algorithm Selection. Lecture Notes in Computer Science, 2004, , 417-431.	1.0	17
61	Self-Tuning Mechanism for Genetic Algorithms Parameters, an Application to Data-Object Allocation in the Web. Lecture Notes in Computer Science, 2004, , 77-86.	1.0	5
62	Data-Object Replication, Distribution, and Mobility in Network Environments. Lecture Notes in Computer Science, 2004, , 539-545.	1.0	3
63	A METHODOLOGY FOR MODELING INTERACTIONS IN COOPERATIVE INFORMATION SYSTEMS USING COLOURED PETRI NETS. International Journal of Software Engineering and Knowledge Engineering, 2002, 12, 619-635.	0.6	2
64	MPSA: A Methodology to Parallelize Simulated Annealing and Its Application to the Traveling Salesman Problem. Lecture Notes in Computer Science, 2002, , 89-97.	1.0	9
65	Vertical Fragmentation and Allocation in Distributed Databases with Site Capacity Restrictions Using the Threshold Accepting Algorithm. Lecture Notes in Computer Science, 2000, , 75-81.	1.0	8
66	Cooperative Simulated Annealing for Path Planning in Multi-robot Systems. Lecture Notes in Computer Science, 2000, , 148-157.	1.0	9
67	A Methodology to Parallel the Temperature Cycle in Simulated Annealing. Lecture Notes in Computer Science, 2000, , 63-74.	1.0	3
68	CHT: A Digital Computer Package for Solving Short Term Hydro-Thermal Coordination and Unit Commitment Problems. IEEE Transactions on Power Systems, 1986, 1, 168-174.	4.6	15