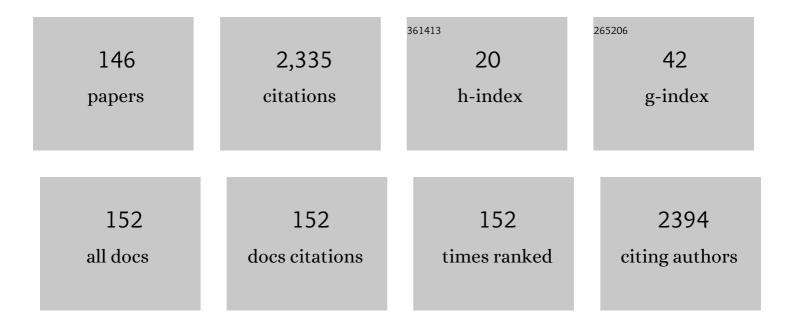
Roberto Santana

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	On the human evaluation of universal audio adversarial perturbations. Computers and Security, 2022, 112, 102495.	6.0	8
2	Analysis of dominant classes in universal adversarial perturbations. Knowledge-Based Systems, 2022, 236, 107719.	7.1	1
3	Adversarial Perturbations for Evolutionary Optimization. Lecture Notes in Computer Science, 2022, , 408-422.	1.3	1
4	Informative neural representations of unseen contents during higher-order processing in human brains and deep artificial networks. Nature Human Behaviour, 2022, 6, 720-731.	12.0	7
5	A grammar-based GP approach applied to the design of deep neural networks. Genetic Programming and Evolvable Machines, 2022, 23, 427-452.	2.2	3
6	In-depth analysis of SVM kernel learning and its components. Neural Computing and Applications, 2021, 33, 6575-6594.	5.6	12
7	Automatic Design of Deep Neural Networks Applied to Image Segmentation Problems. Lecture Notes in Computer Science, 2021, , 98-113.	1.3	3
8	Analysis of Bayesian Network Learning Techniques for a Hybrid Multi-objective Bayesian Estimation of Distribution Algorithm: a case study on MNK Landscape. Journal of Heuristics, 2021, 27, 549-573.	1.4	8
9	Analysis of the sensitivity of the End-Of-Turn Detection task to errors generated by the Automatic Speech Recognition process. Engineering Applications of Artificial Intelligence, 2021, 100, 104189.	8.1	5
10	Towards Automatic Construction of Multi-Network Models for Heterogeneous Multi-Task Learning. ACM Transactions on Knowledge Discovery From Data, 2021, 15, 1-23.	3.5	1
11	Evolution of Gaussian Process kernels for machine translation post-editing effort estimation. Annals of Mathematics and Artificial Intelligence, 2021, 89, 835-856.	1.3	3
12	On the exploitation of neuroevolutionary information. , 2021, , .		3
13	Estimation of distribution algorithms for the computation of innovation estimators of diffusion processes. Mathematics and Computers in Simulation, 2021, 187, 449-467.	4.4	5
14	Evolving Gaussian process kernels from elementary mathematical expressions for time series extrapolation. Neurocomputing, 2021, 462, 426-439.	5.9	3
15	Dynamic programming operators for the bi-objective Traveling Thief Problem. , 2020, , .		0
16	Tool-Path Problem in Direct Energy Deposition Metal-Additive Manufacturing: Sequence Strategy Generation. IEEE Access, 2020, 8, 91574-91585.	4.2	5
17	Transfer learning in hierarchical dialogue topic classification with neural networks*. , 2020, , .		0
18	Envisioning the Benefits of Back-Drive in Evolutionary Algorithms. , 2020, , .		1

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19	A Symmetric grammar approach for designing segmentation models. , 2020, , .		3
20	Decoding and encoding models reveal the role of mental simulation in the brain representation of meaning. Royal Society Open Science, 2020, 7, 192043.	2.4	8
21	Evolving Gaussian Process Kernels for Translation Editing Effort Estimation. Lecture Notes in Computer Science, 2020, , 304-318.	1.3	3
22	Analysis of the transferability and robustness of GANs evolved for Pareto set approximations. Neural Networks, 2020, 132, 281-296.	5.9	7
23	Evaluation of the Temperature and Time in Centrifugation-Assisted Freeze Concentration. Applied Sciences (Switzerland), 2020, 10, 9130.	2.5	3
24	Exploring Gaps in DeepFool in Search of More Effective Adversarial Perturbations. Lecture Notes in Computer Science, 2020, , 215-227.	1.3	1
25	Adaptation of a Branching Algorithm to Solve the Multi-Objective Hamiltonian Cycle Problem. Operations Research Proceedings: Papers of the Annual Meeting = VortrÃ g e Der Jahrestagung / DGOR, 2020, , 231-237.	0.1	0
26	Investigating RNNs for vehicle volume forecasting in service stations. , 2020, , .		3
27	EvoFlow: A Python library for evolving deep neural network architectures in tensorflow. , 2020, , .		3
28	Bayesian Optimization Approaches for Massively Multi-modal Problems. Lecture Notes in Computer Science, 2020, , 383-397.	1.3	2
29	Automatic Structural Search for Multi-task Learning VALPs. Communications in Computer and Information Science, 2020, , 25-36.	0.5	2
30	Multi-objective Approach to the Protein Structure Prediction Problem. , 2020, , 151-169.		0
31	A Dialogue-Act Taxonomy for a Virtual Coach Designed to Improve the Life of Elderly. Multimodal Technologies and Interaction, 2019, 3, 52.	2.5	22
32	Sentiment analysis with genetically evolved gaussian kernels. , 2019, , .		3
33	Optimizing permutation-based problems with a discrete vine-copula as a model for EDA. , 2019, , .		2
34	GP-based methods for domain adaptation: using brain decoding across subjects as a test-case. Genetic Programming and Evolvable Machines, 2019, 20, 385-411.	2.2	4
35	An Experimental Study in Adaptive Kernel Selection for Bayesian Optimization. IEEE Access, 2019, 7, 184294-184302.	4.2	8
36	Automatic Design of Convolutional Neural Networks using Grammatical Evolution. , 2019, , .		3

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37	Detection of sand dunes on Mars using a regular vine-based classification approach. Knowledge-Based Systems, 2019, 163, 858-874.	7.1	14
38	How the brain encodes meaning: Comparing word embedding and computer vision models to predict fMRI data during visual word recognition. , 2019, , .		0
39	An investigation of the selection strategies impact on MOEDAs: CMA-ES and UMDA. Applied Soft Computing Journal, 2018, 62, 963-973.	7.2	7
40	Hybrid multi-objective Bayesian estimation of distribution algorithm: a comparative analysis for the multi-objective knapsack problem. Journal of Heuristics, 2018, 24, 25-47.	1.4	8
41	On the Performance of Multi-Objective Estimation of Distribution Algorithms for Combinatorial Problems. , 2018, , .		8
42	Analysis of the Complexity of the Automatic Pipeline Generation Problem. , 2018, , .		11
43	Exploring the probabilistic graphic model of a hybrid multi-objective Bayesian estimation of distribution algorithm. Applied Soft Computing Journal, 2018, 73, 328-343.	7.2	5
44	Algorithm 989. ACM Transactions on Mathematical Software, 2018, 44, 1-13.	2.9	7
45	Modeling dependencies between decision variables and objectives with copula models. , 2018, , .		2
46	Evolved GANs for generating pareto set approximations. , 2018, , .		24
47	Expanding variational autoencoders for learning and exploiting latent representations in search distributions. , 2018, , .		8
48	Feature extraction-based prediction of tool wear of Inconel 718 in face turning. Insight: Non-Destructive Testing and Condition Monitoring, 2018, 60, 443-450.	0.6	9
49	The Relationship Between Graphical Representations of Regular Vine Copulas and Polytrees. Communications in Computer and Information Science, 2018, , 678-690.	0.5	0
50	Not all PBILs are the same: Unveiling the different learning mechanisms of PBIL variants. Applied Soft Computing Journal, 2017, 53, 88-96.	7.2	8
51	Multiobjective decomposition-based Mallows Models estimation of distribution algorithm. A case of study for permutation flowshop scheduling problem. Information Sciences, 2017, 397-398, 137-154.	6.9	29
52	A decomposition-based binary ACO algorithm for the multiobjective UBQP. Neurocomputing, 2017, 246, 58-68.	5.9	16
53	An investigation of clustering strategies in many-objective optimization: the I-Multi algorithm as a case study. Swarm Intelligence, 2017, 11, 101-130.	2.2	11
54	An extensive analysis of the interaction between missing data types, imputation methods, and supervised classifiers. Expert Systems With Applications, 2017, 89, 52-65.	7.6	78

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55	A comparison of probabilistic-based optimization approaches for vehicle routing problems. , 2017, , .		3
56	Combining CMA-ES and MOEA/DD for many-objective optimization. , 2017, , .		9
57	Automated design of hyper-heuristics components to solve the PSP problem with HP model. , 2017, , .		4
58	Different scenarios for survival analysis of evolutionary algorithms. , 2017, , .		0
59	Transfer weight functions for injecting problem information in the multi-objective CMA-ES. Memetic Computing, 2017, 9, 153-180.	4.0	3
60	Probabilistic Analysis of Pareto Front Approximation for a Hybrid Multi-objective Bayesian Estimation of Distribution Algorithm. , 2017, , .		3
61	User Adapted Motor-Imaginary Brain-Computer Interface by means of EEG Channel Selection Based on Estimation of Distributed Algorithms. Mathematical Problems in Engineering, 2016, 2016, 1-12.	1.1	9
62	Investigating Selection Strategies in Multi-objective Probabilistic Model Based Algorithms. , 2016, , .		0
63	Maximal nonlinearity in balanced boolean functions with even number of inputs, revisited. , 2016, , .		10
64	On the Design of Hard mUBQP Instances. , 2016, , .		0
65	Evolutionary Approaches to Optimization Problems in Chimera Topologies. , 2016, , .		0
66	HMOBEDA. , 2016, , .		6
67	Evolutionary Optimization of Compiler Flag Selection by Learning and Exploiting Flags Interactions. , 2016, , .		13
68	Vine copula classifiers for the mind reading problem. Progress in Artificial Intelligence, 2016, 5, 289-305.	2.4	6
69	A review of message passing algorithms in estimation of distribution algorithms. Natural Computing, 2016, 15, 165-180.	3.0	3
70	C-Multi: A competent multi-swarm approach for many-objective problems. Neurocomputing, 2016, 180, 68-78.	5.9	13
71	Mixtures of Generalized Mallows models for solving the quadratic assignment problem. , 2015, , .		1

72 Capturing Relationships in Multi-objective Optimization. , 2015, , .

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73	Multi-objective NM-Landscapes. , 2015, , .		2
74	Multi-view classification of psychiatric conditions based on saccades. Applied Soft Computing Journal, 2015, 31, 308-316.	7.2	2
75	Comprehensive characterization of the behaviors of estimation of distribution algorithms. Theoretical Computer Science, 2015, 598, 64-86.	0.9	6
76	Fighting the Symmetries. , 2015, , .		11
77	Evolving MNK-landscapes with structural constraints. , 2015, , .		6
78	Multiobjective Estimation of Distribution Algorithm Based on Joint Modeling of Objectives and Variables. IEEE Transactions on Evolutionary Computation, 2014, 18, 519-542.	10.0	80
79	A Probabilistic Evolutionary Optimization Approach to Compute Quasiparticle Braids. Lecture Notes in Computer Science, 2014, , 13-24.	1.3	1
80	Regularized continuous estimation of distribution algorithms. Applied Soft Computing Journal, 2013, 13, 2412-2432.	7.2	23
81	Symmetry in evolutionary and estimation of distribution algorithms. , 2013, , .		2
82	A review on evolutionary algorithms in Bayesian network learning and inference tasks. Information Sciences, 2013, 233, 109-125.	6.9	110
83	Multi-objective optimization approach to detecting extremal patterns in social networks. , 2013, , .		0
84	Model-based template-recombination in Markov network estimation of distribution algorithms for problems with discrete representation. , 2013, , .		1
85	On the Taxonomy of Optimization Problems Under Estimation of Distribution Algorithms. Evolutionary Computation, 2013, 21, 471-495.	3.0	13
86	Network measures for information extraction in evolutionary algorithms. International Journal of Computational Intelligence Systems, 2013, 6, 1163-1188.	2.7	13
87	Classification of neocortical interneurons using affinity propagation. Frontiers in Neural Circuits, 2013, 7, 185.	2.8	28
88	Message Passing Methods for Estimation of Distribution Algorithms Based on Markov Networks. Lecture Notes in Computer Science, 2013, , 419-430.	1.3	2
89	Critical Issues in Model-Based Surrogate Functions in Estimation of Distribution Algorithms. Lecture Notes in Computer Science, 2013, , 1-13.	1.3	2
90	Maximizing the number of polychronous groups in spiking networks. , 2012, , .		0

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91	Introducing the use of model-based evolutionary algorithms for EEG-based motor imagery classification. , 2012, , .		2
92	Evolving NK-complexity for evolutionary solvers. , 2012, , .		2
93	An analysis of the use of probabilistic modeling for synaptic connectivity prediction from genomic data. , 2012, , .		0
94	Structural transfer using EDAs: An application to multi-marker tagging SNP selection. , 2012, , .		18
95	Regularized logistic regression and multiobjective variable selection for classifying MEG data. Biological Cybernetics, 2012, 106, 389-405.	1.3	8
96	A review on probabilistic graphical models in evolutionary computation. Journal of Heuristics, 2012, 18, 795-819.	1.4	70
97	Probabilistic Graphical Models and Markov Networks. Adaptation, Learning, and Optimization, 2012, , 3-19.	0.6	1
98	A Review of Estimation of Distribution Algorithms and Markov Networks. Adaptation, Learning, and Optimization, 2012, , 21-37.	0.6	6
99	MOA - Markovian Optimisation Algorithm. Adaptation, Learning, and Optimization, 2012, , 39-53.	0.6	1
100	MN-EDA and the Use of Clique-Based Factorisations in EDAs. Adaptation, Learning, and Optimization, 2012, , 73-87.	0.6	1
101	A Markovianity based optimisation algorithm. Genetic Programming and Evolvable Machines, 2012, 13, 159-195.	2.2	28
102	Toward Understanding EDAs Based on Bayesian Networks Through a Quantitative Analysis. IEEE Transactions on Evolutionary Computation, 2012, 16, 173-189.	10.0	18
103	Conductance interaction identification by means of Boltzmann distribution and mutual information analysis in conductance-based neuron models. BMC Neuroscience, 2012, 13, .	1.9	1
104	Continuous Estimation of Distribution Algorithms Based on Factorized Gaussian Markov Networks. Adaptation, Learning, and Optimization, 2012, , 157-173.	0.6	5
105	Fast Fitness Improvements in Estimation of Distribution Algorithms Using Belief Propagation. Adaptation, Learning, and Optimization, 2012, , 141-155.	0.6	4
106	Optimizing Brain Networks Topologies Using Multi-objective Evolutionary Computation. Neuroinformatics, 2011, 9, 3-19.	2.8	12
107	Univariate marginal distribution algorithm dynamics for a class of parametric functions with unitation constraints. Information Sciences, 2011, 181, 2340-2355.	6.9	17

108 Quantitative genetics in multi-objective optimization algorithms. , 2011, , .

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109	Estimation of distribution algorithms. , 2011, , .		9
110	Affinity propagation enhanced by estimation of distribution algorithms. , 2011, , .		5
111	Regularized k-order markov models in EDAs. , 2011, , .		2
112	A direct optimization approach to the P300 speller. , 2011, , .		2
113	A differential evolution algorithm for the detection of synaptic vesicles. , 2011, , .		1
114	On the limits of effectiveness in estimation of distribution algorithms. , 2011, , .		13
115	Multi-objective Optimization with Joint Probabilistic Modeling of Objectives and Variables. Lecture Notes in Computer Science, 2011, , 298-312.	1.3	8
116	Multi-marker tagging single nucleotide polymorphism selection using estimation of distribution algorithms. Artificial Intelligence in Medicine, 2010, 50, 193-201.	6.5	11
117	Bivariate empirical and n-variate Archimedean copulas in estimation of distribution algorithms. , 2010, , .		14
118	Estimation of Bayesian networks algorithms in a class of complex networks. , 2010, , .		2
119	Learning Factorizations in Estimation of Distribution Algorithms Using Affinity Propagation. Evolutionary Computation, 2010, 18, 515-546.	3.0	22
120	Using Probabilistic Dependencies Improves the Search of Conductance-Based Compartmental Neuron Models. Lecture Notes in Computer Science, 2010, , 170-181.	1.3	1
121	Analyzing the k Most Probable Solutions in EDAs Based on Bayesian Networks. Adaptation, Learning, and Optimization, 2010, , 163-189.	0.6	2
122	Synergies between Network-Based Representation and Probabilistic Graphical Models for Classification, Inference and Optimization Problems in Neuroscience. Lecture Notes in Computer Science, 2010, , 149-158.	1.3	1
123	Mateda-2.0 : A <i>MATLAB</i> Package for the Implementation and Analysis of Estimation of Distribution Algorithms. Journal of Statistical Software, 2010, 35, .	3.7	37
124	Analyzing the probability of the optimum in EDAs based on Bayesian networks. , 2009, , .		9
125	Mining probabilistic models learned by EDAs in the optimization of multi-objective problems. , 2009, , .		16
126	Research topics in discrete estimation of distribution algorithms based on factorizations. Memetic Computing, 2009, 1, 35-54.	4.0	28

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127	Combining variable neighborhood search and estimation of distribution algorithms in the protein side chain placement problem. Journal of Heuristics, 2008, 14, 519-547.	1.4	34
128	A review of estimation of distribution algorithms in bioinformatics. BioData Mining, 2008, 1, 6.	4.0	61
129	Protein Folding in Simplified Models With Estimation of Distribution Algorithms. IEEE Transactions on Evolutionary Computation, 2008, 12, 418-438.	10.0	110
130	An EDA based on local markov property and gibbs sampling. , 2008, , .		15
131	Component weighting functions for adaptive search with EDAs. , 2008, , .		3
132	Adaptive Estimation of Distribution Algorithms. Studies in Computational Intelligence, 2008, , 177-197.	0.9	11
133	The Impact of Exact Probabilistic Learning Algorithms in EDAs Based on Bayesian Networks. Studies in Computational Intelligence, 2008, , 109-139.	0.9	13
134	Adding Probabilistic Dependencies to the Search of Protein Side Chain Configurations Using EDAs. Lecture Notes in Computer Science, 2008, , 1120-1129.	1.3	3
135	A parallel framework for loopy belief propagation. , 2007, , .		15
136	Exact Bayesian network learning in estimation of distribution algorithms. , 2007, , .		26
137	Side chain placement using estimation of distribution algorithms. Artificial Intelligence in Medicine, 2007, 39, 49-63.	6.5	34
138	The Role of a Priori Information in the Minimization of Contact Potentials by Means of Estimation of Distribution Algorithms. , 2007, , 247-257.		13
139	Machine learning in bioinformatics. Briefings in Bioinformatics, 2006, 7, 86-112.	6.5	674
140	Mixtures of Kikuchi Approximations. Lecture Notes in Computer Science, 2006, , 365-376.	1.3	11
141	A novel in-silico approach for QSAR Studies of Anabolic and Androgenic Activities in the 17β-hydroxy-5α-androstane Steroid Family. QSAR and Combinatorial Science, 2005, 24, 218-226.	1.4	22
142	Estimation of Distribution Algorithms with Kikuchi Approximations. Evolutionary Computation, 2005, 13, 67-97.	3.0	73
143	Protein Folding in 2-Dimensional Lattices with Estimation of Distribution Algorithms. Lecture Notes in Computer Science, 2004, , 388-398.	1.3	13
144	A Markov Network Based Factorized Distribution Algorithm for Optimization. Lecture Notes in Computer Science, 2003, , 337-348.	1.3	34

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145	On the use of Factorized Distribution Algorithms for problems defined on graphs. Electronic Notes in Discrete Mathematics, 2001, 8, 84.	0.4	0
146	An empirical comparison of distance/similarity measures for Natural Language Processing. , 0, , .		2