

Luis C Lamb

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

855
citations

840585

11
h-index

580701

25
g-index

79
all docs

79
docs citations

79
times ranked

751
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-dimensional protein structure prediction: Methods and computational strategies. Computational Biology and Chemistry, 2014, 53, 251-276.	1.1	160
2	Assessing gender bias in machine translation: a case study with Google Translate. Neural Computing and Applications, 2020, 32, 6363-6381.	3.2	122
3	Learning to Solve NP-Complete Problems: A Graph Neural Network for Decision TSP. Proceedings of the AAAI Conference on Artificial Intelligence, 2019, 33, 4731-4738.	3.6	72
4	Machine Learning in Network Centrality Measures. ACM Computing Surveys, 2019, 51, 1-32.	16.1	35
5	Connectionist modal logic: Representing modalities in neural networks. Theoretical Computer Science, 2007, 371, 34-53.	0.5	30
6	Value-based Argumentation Frameworks as Neural-symbolic Learning Systems. Journal of Logic and Computation, 2005, 15, 1041-1058.	0.5	29
7	Software Quality Metrics and their Impact on Embedded Software. , 2008, , .		28
8	Learning and Representing Temporal Knowledge in Recurrent Networks. IEEE Transactions on Neural Networks, 2011, 22, 2409-2421.	4.8	28
9	An Analysis of Centrality Measures for Complex and Social Networks. , 2016, , .		25
10	Efficient modularity density heuristics for large graphs. European Journal of Operational Research, 2017, 258, 844-865.	3.5	24
11	Graph Colouring Meets Deep Learning: Effective Graph Neural Network Models for Combinatorial Problems. , 2019, , .		23
12	A Connectionist Computational Model for Epistemic and Temporal Reasoning. Neural Computation, 2006, 18, 1711-1738.	1.3	17
13	Statistical fluctuations in population bargaining in the ultimatum game: Static and evolutionary aspects. Journal of Theoretical Biology, 2009, 258, 208-218.	0.8	15
14	Using UML as front-end for heterogeneous software code generation strategies. , 2008, , .		14
15	APPLYING CONNECTIONIST MODAL LOGICS TO DISTRIBUTED KNOWLEDGE REPRESENTATION PROBLEMS. International Journal on Artificial Intelligence Tools, 2004, 13, 115-139.	0.7	13
16	Towards understanding the role of learning models in the dynamics of the minority game. , 0, , .		11
17	Connectionist computations of intuitionistic reasoning. Theoretical Computer Science, 2006, 358, 34-55.	0.5	11
18	Formalizing traceability relations for product lines. , 2011, , .		11

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19	A neural cognitive model of argumentation with application to legal inference and decision making. Journal of Applied Logic, 2014, 12, 109-127.	1.1	11
20	Collective Poisson process with periodic rates: applications in physics from micro-to nanodevices. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 307-321.	1.6	10
21	A simple non-Markovian computational model of the statistics of soccer leagues: Emergence and scaling effects. Computer Physics Communications, 2013, 184, 661-670.	3.0	9
22	Integrating model verification and self-adaptation. , 2010, , .		8
23	A hybrid genetic algorithm for the 3-D protein structure prediction problem using a path-relinking strategy. , 2011, , .		8
24	Estimating complex networks centrality via neural networks and machine learning. , 2015, , .		8
25	On approximating networks centrality measures via neural learning algorithms. , 2016, , .		8
26	Universality, correlations, and rankings in the Brazilian universities national admission examinations. Physica A: Statistical Mechanics and Its Applications, 2016, 457, 295-306.	1.2	8
27	Exact computational solution of Modularity Density Maximization by effective column generation. Computers and Operations Research, 2017, 86, 18-29.	2.4	8
28	Stock markets and criticality in the current economic crisis. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 5460-5467.	1.2	7
29	Using UML as Front-end for Heterogeneous Software Code Generation Strategies. , 2008, , .		6
30	A simple combinatorial method to describe particle retention time in random media with applications in chromatography. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 1-7.	1.2	6
31	A connectionist inductive learning system for modal logic programming. , 0, , .		5
32	Towards Estimating Physical Properties of Embedded Systems using Software Quality Metrics. , 2010, , .		5
33	Learning to adapt requirements specifications of evolving systems (NIER track). , 2011, , .		5
34	The Impact of Centrality on Individual and Collective Performance in Social Problem-Solving Systems. , 2015, , .		4
35	Efficient quantitative heuristics for graph clustering. , 2017, , .		4
36	A ground truth contest between modularity maximization and modularity density maximization. Artificial Intelligence Review, 2020, 53, 4575-4599.	9.7	4

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37	Cognitive Algorithms and Systems: Reasoning and Knowledge Representation. , 2011, , 573-600.		4
38	On the Use of Software Quality Metrics to Improve Physical Properties of Embedded Systems. International Federation for Information Processing, 2008, , 101-110.	0.4	4
39	On the use of memory and resources in minority games. ACM Transactions on Autonomous and Adaptive Systems, 2009, 4, 1-23.	0.4	3
40	A cluster-DEE-based strategy to empower protein design. Expert Systems With Applications, 2013, 40, 5210-5218.	4.4	3
41	MOIRAE: A computational strategy to extract and represent structural information from experimental protein templates. Soft Computing, 2014, 18, 773-795.	2.1	3
42	Randomness and arbitrary coordination in the reactive ultimatum game. Communications in Nonlinear Science and Numerical Simulation, 2016, 36, 419-430.	1.7	3
43	Genetic algorithm for epidemic mitigation by removing relationships. , 2017, , .		3
44	Argumentation Neural Networks. Lecture Notes in Computer Science, 2004, , 606-612.	1.0	3
45	Neural Networks Models for Analyzing Magic: The Gathering Cards. Lecture Notes in Computer Science, 2018, , 227-239.	1.0	3
46	Multitask Learning on Graph Neural Networks: Learning Multiple Graph Centrality Measures with a Unified Network. Lecture Notes in Computer Science, 2019, , 701-715.	1.0	3
47	On Quantifying and Understanding the Role of Ethics in AI Research: A Historical Account of Flagship Conferences and Journals. , 0, , .		3
48	Analysis of the use of declarative languages for enhanced embedded system software development. , 2007, , .		2
49	A neural-symbolic perspective on analogy. Behavioral and Brain Sciences, 2008, 31, 379-380.	0.4	2
50	A Hierarchical Model for Firewall Policy Extraction. , 2009, , .		2
51	Two Novel Algorithms for High Quality Motion Estimation in High Definition Video Sequences. , 2011, , .		2
52	Collaboration Emergence in Social Networks with Informational Natural Selection. , 2011, , .		2
53	A molecular dynamics and knowledge-based computational strategy to predict native-like structures of polypeptides. Expert Systems With Applications, 2013, 40, 698-706.	4.4	2
54	On the role of degree influence in suboptimal modularity maximization. , 2016, , .		2

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55	Novel Clique enumeration heuristic for detecting overlapping clusters. , 2017, , .		2
56	Computing Vertex Centrality Measures in Massive Real Networks with a Neural Learning Model. , 2018, , .		2
57	Combining Architectures for Temporal Learning in Neural-Symbolic Systems. , 2006, , .		1
58	Reasoning and Learning About Past Temporal Knowledge in Connectionist Models. Neural Networks (IJCNN), International Joint Conference on, 2007, , .	0.0	1
59	On the Effects of Network Structure in Population-Based Optimization. , 2008, , .		1
60	Modeling Adaptative Social Behavior in Collective Problem Solving Algorithms. , 2012, , .		1
61	Reports of the AAAI 2012 Conference Workshops. AI Magazine, 2012, 33, 119.	1.4	1
62	Applying Neural-Symbolic Cognitive Agents in Intelligent Transport Systems to reduce CO ₂ emissions. , 2014, , .		1
63	A New Model and Heuristic for Infection Minimization by Cutting Relationships. Lecture Notes in Computer Science, 2016, , 500-508.	1.0	1
64	On the Effectiveness of the Block Two-Level Erdős-Rényi Generative Network Model. , 2018, , .		1
65	Representing, Learning and Extracting Temporal Knowledge from Neural Networks: A Case Study. Lecture Notes in Computer Science, 2010, , 104-113.	1.0	1
66	Neural-Evolutionary Learning in a Bounded Rationality Scenario. Lecture Notes in Computer Science, 2004, , 996-1001.	1.0	0
67	Distributed problem solving by memetic networks. , 2008, , .		0
68	Recent advances in model-based methodologies for pervasive and embedded software. Software Engineering Notes: an Informal Newsletter of the Special Interest Committee on Software Engineering / ACM, 2009, 34, 37-39.	0.5	0
69	Model-based Methodologies for Pervasive and Embedded Software. , 2009, , .		0
70	Investigating a Socially Inspired Heterogeneous System of Problem Solving Agents. , 2013, , .		0
71	Efficient Stochastic Local Search for Modularity Maximization. , 2016, , .		0
72	Novel Parallel Anytime A* for Graph and Network Clustering. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
73	Problem Solving at the Edge of Chaos: Entropy, Puzzles and the Sudoku Freezing Transition. , 2018, , .		0
74	Effective Ant Colony Optimization Solution for the Brazilian Family Health Team Scheduling Problem. , 2018, , .		0
75	A Reactive-Darwinian Model for the ultimatum game: On the dominance of moderation in high diffusion. Communications in Nonlinear Science and Numerical Simulation, 2020, 80, 104956.	1.7	0
76	Exact Signed Modularity Density Maximization Solutions and Their Real Meaning*. , 2020, , .		0
77	Learning and Argumentation in Neural-Symbolic Computation. , 2012, , 1769-1771.		0
78	On the Role of Central Individuals in Influence Propagation. , 2019, , .		0