

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 | Assessing gender bias in machine translation: a case study with Google Translate. <i>Neural Computing and Applications</i> , 2020, 32, 6363-6381. | 3.2 | 122 |
| 2 | A Reactive-Darwinian Model for the ultimatum game: On the dominance of moderation in high diffusion. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2020, 80, 104956. | 1.7 | 0 |
| 3 | A ground truth contest between modularity maximization and modularity density maximization. <i>Artificial Intelligence Review</i> , 2020, 53, 4575-4599. | 9.7 | 4 |
| 4 | Exact Signed Modularity Density Maximization Solutions and Their Real Meaning*. , 2020, , . | | 0 |
| 5 | Learning to Solve NP-Complete Problems: A Graph Neural Network for Decision TSP. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , 2019, 33, 4731-4738. | 3.6 | 72 |
| 6 | Graph Colouring Meets Deep Learning: Effective Graph Neural Network Models for Combinatorial Problems. , 2019, , . | | 23 |
| 7 | Machine Learning in Network Centrality Measures. <i>ACM Computing Surveys</i> , 2019, 51, 1-32. | 16.1 | 35 |
| 8 | Multitask Learning on Graph Neural Networks: Learning Multiple Graph Centrality Measures with a Unified Network. <i>Lecture Notes in Computer Science</i> , 2019, , 701-715. | 1.0 | 3 |
| 9 | On the Role of Central Individuals in Influence Propagation. , 2019, , . | | 0 |
| 10 | Novel Parallel Anytime A* for Graph and Network Clustering. , 2018, , . | | 0 |
| 11 | On the Effectiveness of the Block Two-Level Erdős-Rényi Generative Network Model. , 2018, , . | | 1 |
| 12 | Problem Solving at the Edge of Chaos: Entropy, Puzzles and the Sudoku Freezing Transition. , 2018, , . | | 0 |
| 13 | Computing Vertex Centrality Measures in Massive Real Networks with a Neural Learning Model. , 2018, , . | | 2 |
| 14 | Effective Ant Colony Optimization Solution for the Brazilian Family Health Team Scheduling Problem. , 2018, , . | | 0 |
| 15 | Neural Networks Models for Analyzing Magic: The Gathering Cards. <i>Lecture Notes in Computer Science</i> , 2018, , 227-239. | 1.0 | 3 |
| 16 | Exact computational solution of Modularity Density Maximization by effective column generation. <i>Computers and Operations Research</i> , 2017, 86, 18-29. | 2.4 | 8 |
| 17 | Genetic algorithm for epidemic mitigation by removing relationships. , 2017, , . | | 3 |
| 18 | Efficient quantitative heuristics for graph clustering. , 2017, , . | | 4 |

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|----|--|-----|-----------|
| 19 | Novel Clique enumeration heuristic for detecting overlapping clusters. , 2017, , . | | 2 |
| 20 | Efficient modularity density heuristics for large graphs. European Journal of Operational Research, 2017, 258, 844-865. | 3.5 | 24 |
| 21 | On the role of degree influence in suboptimal modularity maximization. , 2016, , . | | 2 |
| 22 | An Analysis of Centrality Measures for Complex and Social Networks. , 2016, , . | | 25 |
| 23 | Efficient Stochastic Local Search for Modularity Maximization. , 2016, , . | | 0 |
| 24 | A New Model and Heuristic for Infection Minimization by Cutting Relationships. Lecture Notes in Computer Science, 2016, , 500-508. | 1.0 | 1 |
| 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 | Randomness and arbitrary coordination in the reactive ultimatum game. Communications in Nonlinear Science and Numerical Simulation, 2016, 36, 419-430. | 1.7 | 3 |
| 28 | Estimating complex networks centrality via neural networks and machine learning. , 2015, , . | | 8 |
| 29 | The Impact of Centrality on Individual and Collective Performance in Social Problem-Solving Systems. , 2015, , . | | 4 |
| 30 | Applying Neural-Symbolic Cognitive Agents in Intelligent Transport Systems to reduce CO ₂ emissions. , 2014, , . | | 1 |
| 31 | MOIRAE: A computational strategy to extract and represent structural information from experimental protein templates. Soft Computing, 2014, 18, 773-795. | 2.1 | 3 |
| 32 | Three-dimensional protein structure prediction: Methods and computational strategies. Computational Biology and Chemistry, 2014, 53, 251-276. | 1.1 | 160 |
| 33 | 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 |
| 34 | 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 |
| 35 | A cluster-DEE-based strategy to empower protein design. Expert Systems With Applications, 2013, 40, 5210-5218. | 4.4 | 3 |
| 36 | Investigating a Socially Inspired Heterogeneous System of Problem Solving Agents. , 2013, , . | | 0 |

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|----|--|-----|-----------|
| 37 | 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 |
| 38 | Modeling Adaptative Social Behavior in Collective Problem Solving Algorithms. , 2012, , . | | 1 |
| 39 | Reports of the AAAI 2012 Conference Workshops. AI Magazine, 2012, 33, 119. | 1.4 | 1 |
| 40 | 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 |
| 41 | Learning and Argumentation in Neural-Symbolic Computation. , 2012, , 1769-1771. | | 0 |
| 42 | Two Novel Algorithms for High Quality Motion Estimation in High Definition Video Sequences. , 2011, , . | | 2 |
| 43 | A hybrid genetic algorithm for the 3-D protein structure prediction problem using a path-relinking strategy. , 2011, , . | | 8 |
| 44 | Learning and Representing Temporal Knowledge in Recurrent Networks. IEEE Transactions on Neural Networks, 2011, 22, 2409-2421. | 4.8 | 28 |
| 45 | 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 |
| 46 | Learning to adapt requirements specifications of evolving systems (NIER track). , 2011, , . | | 5 |
| 47 | Formalizing traceability relations for product lines. , 2011, , . | | 11 |
| 48 | Collaboration Emergence in Social Networks with Informational Natural Selection. , 2011, , . | | 2 |
| 49 | Cognitive Algorithms and Systems: Reasoning and Knowledge Representation. , 2011, , 573-600. | | 4 |
| 50 | Stock markets and criticality in the current economic crisis. Physica A: Statistical Mechanics and Its Applications, 2010, 389, 5460-5467. | 1.2 | 7 |
| 51 | Integrating model verification and self-adaptation. , 2010, , . | | 8 |
| 52 | Towards Estimating Physical Properties of Embedded Systems using Software Quality Metrics. , 2010, , . | | 5 |
| 53 | Representing, Learning and Extracting Temporal Knowledge from Neural Networks: A Case Study. Lecture Notes in Computer Science, 2010, , 104-113. | 1.0 | 1 |
| 54 | 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 |

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|----|--|-----|-----------|
| 55 | Model-based Methodologies for Pervasive and Embedded Software. , 2009, , . | | 0 |
| 56 | On the use of memory and resources in minority games. ACM Transactions on Autonomous and Adaptive Systems, 2009, 4, 1-23. | 0.4 | 3 |
| 57 | Statistical fluctuations in population bargaining in the ultimatum game: Static and evolutionary aspects. Journal of Theoretical Biology, 2009, 258, 208-218. | 0.8 | 15 |
| 58 | A Hierarchical Model for Firewall Policy Extraction. , 2009, , . | | 2 |
| 59 | Software Quality Metrics and their Impact on Embedded Software. , 2008, , . | | 28 |
| 60 | Using UML as Front-end for Heterogeneous Software Code Generation Strategies. , 2008, , . | | 6 |
| 61 | A neural-symbolic perspective on analogy. Behavioral and Brain Sciences, 2008, 31, 379-380. | 0.4 | 2 |
| 62 | On the Effects of Network Structure in Population-Based Optimization. , 2008, , . | | 1 |
| 63 | Distributed problem solving by memetic networks. , 2008, , . | | 0 |
| 64 | Using UML as front-end for heterogeneous software code generation strategies. , 2008, , . | | 14 |
| 65 | 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 |
| 66 | Analysis of the use of declarative languages for enhanced embedded system software development. , 2007, , . | | 2 |
| 67 | Reasoning and Learning About Past Temporal Knowledge in Connectionist Models. Neural Networks (IJCNN), International Joint Conference on, 2007, , . | 0.0 | 1 |
| 68 | Connectionist modal logic: Representing modalities in neural networks. Theoretical Computer Science, 2007, 371, 34-53. | 0.5 | 30 |
| 69 | Combining Architectures for Temporal Learning in Neural-Symbolic Systems. , 2006, , . | | 1 |
| 70 | Connectionist computations of intuitionistic reasoning. Theoretical Computer Science, 2006, 358, 34-55. | 0.5 | 11 |
| 71 | A Connectionist Computational Model for Epistemic and Temporal Reasoning. Neural Computation, 2006, 18, 1711-1738. | 1.3 | 17 |
| 72 | Value-based Argumentation Frameworks as Neural-symbolic Learning Systems. Journal of Logic and Computation, 2005, 15, 1041-1058. | 0.5 | 29 |

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|----|--|-----|-----------|
| 73 | Neural-Evolutionary Learning in a Bounded Rationality Scenario. Lecture Notes in Computer Science, 2004, , 996-1001. | 1.0 | 0 |
| 74 | APPLYING CONNECTIONIST MODAL LOGICS TO DISTRIBUTED KNOWLEDGE REPRESENTATION PROBLEMS. International Journal on Artificial Intelligence Tools, 2004, 13, 115-139. | 0.7 | 13 |
| 75 | Argumentation Neural Networks. Lecture Notes in Computer Science, 2004, , 606-612. | 1.0 | 3 |
| 76 | A connectionist inductive learning system for modal logic programming. , 0, , . | | 5 |
| 77 | Towards understanding the role of learning models in the dynamics of the minority game. , 0, , . | | 11 |
| 78 | On Quantifying and Understanding the Role of Ethics in AI Research: A Historical Account of Flagship Conferences and Journals. , 0, , . | | 3 |