Ricard GavaldÃ Mestre

List of Publications by Year
in descending order

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84	3,094	471509 17	377865 34
papers	citations	h-index	g-index

88	88	88	2006
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Learning from Time-Changing Data with Adaptive Windowing. , 2007, , .		863
2	New ensemble methods for evolving data streams. , 2009, , .		359
3	Adaptive Learning from Evolving Data Streams. Lecture Notes in Computer Science, 2009, , 249-260.	1.3	251
4	Towards energy-aware scheduling in data centers using machine learning. , 2010, , .		169
5	Oracles and Queries That Are Sufficient for Exact Learning. Journal of Computer and System Sciences, 1996, 52, 421-433.	1.2	123
6	Adaptive Sampling Methods for Scaling Up Knowledge Discovery Algorithms. Data Mining and Knowledge Discovery, 2002, 6, 131-152.	3.7	75
7	Energy-efficient and multifaceted resource management for profit-driven virtualized data centers. Future Generation Computer Systems, 2012, 28, 718-731.	7.5	66
8	Computational power of neural networks: a characterization in terms of Kolmogorov complexity. IEEE Transactions on Information Theory, 1997, 43, 1175-1183.	2.4	65
9	Non-Automatizability of Bounded-Depth Frege Proofs. Computational Complexity, 2004, 13, 47-68.	0.3	56
10	Adaptive on-line software aging prediction based on machine learning. , 2010, , .		51
11	Online Techniques for Dealing with Concept Drift in Process Mining. Lecture Notes in Computer Science, 2012, , 90-102.	1.3	50
12	Mining frequent closed graphs on evolving data streams. , 2011, , .		48
13	Fraud Detection in Energy Consumption: A Supervised Approach. , 2016, , .		48
14	Algorithms for Learning Finite Automata from Queries: A Unified View. , 1997, , 53-72.		45
15	Adaptive Scheduling on Power-Aware Managed Data-Centers Using Machine Learning. , 2011, , .		42
16	Improving Adaptive Bagging Methods for Evolving Data Streams. Lecture Notes in Computer Science, 2009, , 23-37.	1.3	38
17	Reducing wasted resources to help achieve green data centers. Parallel and Distributed Processing Symposium (IPDPS), Proceedings of the International Conference on, 2008, , .	1.0	37
18	Monotone Proofs of the Pigeon Hole Principle. Mathematical Logic Quarterly, 2001, 47, 461-474.	0.2	35

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19	Kalman Filters and Adaptive Windows for Learning in Data Streams. Lecture Notes in Computer Science, 2006, , 29-40.	1.3	34
20	Building Green Cloud Services at Low Cost. , 2014, , .		31
21	Adaptive distributed mechanism against flooding network attacks based on machine learning. , 2008, , .		29
22	Mining adaptively frequent closed unlabeled rooted trees in data streams. , 2008, , .		27
23	Self-adaptive utility-based web session management. Computer Networks, 2009, 53, 1712-1721.	5.1	25
24	A methodology for the evaluation of high response time on E-commerce users and sales. Information Systems Frontiers, 2014, 16, 867-885.	6.4	25
25	Adaptive Sampling Methods for Scaling Up Knowledge Discovery Algorithms. Lecture Notes in Computer Science, 1999, , 172-183.	1.3	24
26	Web Customer Modeling for Automated Session Prioritization on High Traffic Sites. Lecture Notes in Computer Science, 2007, , 450-454.	1.3	24
27	Bounding the Expected Length of Longest Common Subsequences and Forests. Theory of Computing Systems, 1999, 32, 435-452.	1.1	20
28	Characterization of the CPAP-treated patient population in Catalonia. PLoS ONE, 2017, 12, e0185191.	2.5	20
29	Predicting Web Server Crashes: A Case Study in Comparing Prediction Algorithms. , 2009, , .		19
30	Power-Aware Multi-data Center Management Using Machine Learning. , 2013, , .		19
31	Applying Trust Metrics Based on User Interactions to Recommendation in Social Networks. , 2012, , .		17
32	Rehabilitation Profiles of Older Adult Stroke Survivors Admitted to Intermediate Care Units: A Multi-Centre Study. PLoS ONE, 2016, 11, e0166304.	2.5	16
33	Learning ordered binary decision diagrams. Lecture Notes in Computer Science, 1995, , 228-238.	1.3	16
34	The query complexity of learning DFA. New Generation Computing, 1994, 12, 337-358.	3.3	15
35	Discontinuities in Recurrent Neural Networks. Neural Computation, 1999, 11, 715-745.	2.2	15
36	Strong and robustly strong polynomial-time reducibilities to sparse sets. Theoretical Computer Science, 1991, 88, 1-14.	0.9	14

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37	Characterization of workload and resource consumption for an online travel and booking site. , 2010, , .		14
38	The frequency spectrum of finite samples from the intermittent silence process. Journal of the Association for Information Science and Technology, 2009, 60, 837-843.	2.6	13
39	Practical Algorithms for On-Line Sampling. Lecture Notes in Computer Science, 1998, , 150-161.	1.3	13
40	Tailoring Resources: The Energy Efficient Consolidation Strategy Goes Beyond Virtualization. , 2008, , .		12
41	Mining frequent closed trees in evolving data streams. Intelligent Data Analysis, 2011, 15, 29-48.	0.9	12
42	Adaptive XML Tree Classification on Evolving Data Streams. Lecture Notes in Computer Science, 2009, , 147-162.	1.3	12
43	An efficient closed frequent itemset miner for the MOA stream mining system. AI Communications, 2015, 28, 143-158.	1.2	11
44	An optimal parallel algorithm for learning DFA. , 1994, , .		10
45	Structural analysis of polynomial-time query learnability. Mathematical Systems Theory, 1994, 27, 231-256.	0.5	10
46	An Approach to Correctness of Data Parallel Algorithms. Journal of Parallel and Distributed Computing, 1994, 22, 185-201.	4.1	10
47	Towards Feasible PAC-Learning of Probabilistic Deterministic Finite Automata. Lecture Notes in Computer Science, 2008, , 163-174.	1.3	10
48	On the Computational Complexity of Small Descriptions. SIAM Journal on Computing, 1993, 22, 1257-1275.	1.0	9
49	Empowering automatic data-center management with machine learning. , 2013, , .		9
50	PAC-Learning of Markov Models with Hidden State. Lecture Notes in Computer Science, 2006, , 150-161.	1.3	9
51	Optimal Resource Allocation in a Virtualized Software Aging Platform with Software Rejuvenation. , 2011, , .		8
52	Non-intrusive Estimation of QoS Degradation Impact on E-Commerce User Satisfaction. , 2011, , .		8
53	Adarules: Learning rules for real-time road-traffic prediction. Transportation Research Procedia, 2017, 27, 11-18.	1.5	7
54	Artificial Intelligence for clinical decision support in Critical Care, required and accelerated by COVID-19. Anaesthesia, Critical Care & Pain Medicine, 2020, 39, 691-693.	1.4	7

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55	Bounding the Complexity of Advice Functions. Journal of Computer and System Sciences, 1995, 50, 468-475.	1.2	6
56	Characterizing chronic disease and polymedication prescription patterns from electronic health records. , 2015, , .		6
57	Learning probabilistic automata: A study in state distinguishability. Theoretical Computer Science, 2013, 473, 46-60.	0.9	5
58	Adaptively learning probabilistic deterministic automata from data streams. Machine Learning, 2014, 96, 99-127.	5.4	5
59	Identifiability and transportability in dynamic causal networks. International Journal of Data Science and Analytics, 2017, 3, 131-147.	4.1	5
60	Learning Probability Distributions Generated by Finite-State Machines. , 2016, , 113-142.		5
61	A note on the query complexity of learning DFA. Lecture Notes in Computer Science, 1993, , 53-62.	1.3	5
62	From Training to Match Performance: A Predictive and Explanatory Study on Novel Tracking Data. , 2016, , .		4
63	Assessing spatiotemporal correlations from data for short-term traffic prediction using multi-task learning. Transportation Research Procedia, 2018, 34, 155-162.	1.5	4
64	Tractable Clones of Polynomials over Semigroups. Lecture Notes in Computer Science, 2005, , 196-210.	1.3	4
65	Learning Expressions over Monoids. Lecture Notes in Computer Science, 2001, , 283-293.	1.3	4
66	Monotone Proofs of the Pigeon Hole Principle. Lecture Notes in Computer Science, 2000, , 151-162.	1.3	4
67	An Algebraic Perspective on Boolean Function Learning. Lecture Notes in Computer Science, 2009, , 201-215.	1.3	4
68	Generalized kolmogorov complexity in relativized separations. , 1990, , 269-276.		3
69	J2EE instrumentation for software aging root cause application component determination with AspectJ. , 2010, , .		3
70	A Lower Bound for Learning Distributions Generated by Probabilistic Automata. Lecture Notes in Computer Science, 2010, , 179-193.	1.3	3
71	Strong and robustly strong polynomial time reducibilities to sparse sets. , 1988, , 300-308.		2
72	Pipeline design to identify key features and classify the chemotherapy response on lung cancer patients using large-scale genetic data. BMC Systems Biology, 2018, 12, 97.	3.0	2

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73	Sequential Sampling Algorithms: Unified Analysis and Lower Bounds. Lecture Notes in Computer Science, 2001, , 173-188.	1.3	2
74	Coding Complexity: The Computational Complexity of Succinct Descriptions. , 1997, , 73-91.		2
75	Learning expressions and programs over monoids. Information and Computation, 2006, 204, 177-209.	0.7	1
76	Learning Read-Constant Polynomials of Constant Degree Modulo Composites. Theory of Computing Systems, 2014, 55, 404-420.	1.1	1
77	A new method of moments for latent variable models. Machine Learning, 2018, 107, 1431-1455.	5.4	1
78	Probabilistic model for robust traffic state identification in urban networks. , 2019, , .		1
79	Learning PDFA with Asynchronous Transitions. Lecture Notes in Computer Science, 2010, , 271-275.	1.3	1
80	Learning Read-Constant Polynomials of Constant Degree Modulo Composites. Lecture Notes in Computer Science, 2011, , 29-42.	1.3	1
81	A positive relativization of polynomial time versus polylog space. Information Processing Letters, 1993, 46, 119-123.	0.6	0
82	Interpretable Patient Trajectories from Temporally Annotated Health Records. , 2019, , .		0
83	Correctness of flat data parallel algorithms: an axiomatic approach and examples. Lecture Notes in Computer Science, 1992, , 955-956.	1.3	0
84	Adaptive Windowing. , 2019, , 18-23.		0