Bart Selman

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

40 papers	2,520 citations	19 h-index	43 g-index
43 ext. papers	2,947 ext. citations	7.8 avg, IF	4.76 L-index

#	Paper	IF	Citations
40	Determining computational complexity from characteristic phase transitions. *Nature*, **1999**, 400, 133-137	50.4	482
39	Referral Web. *Communications of the ACM*, **1997**, 40, 63-65	2.5	457
38	Algorithm portfolios. *Artificial Intelligence*, **2001**, 126, 43-62	3.6	260
37	Heavy-Tailed Phenomena in Satisfiability and Constraint Satisfaction Problems. *Journal of Automated Reasoning*, **2000**, 24, 67-100	1	190
36	Generating hard satisfiability problems. *Artificial Intelligence*, **1996**, 81, 17-29	3.6	149
35	Local search strategies for satisfiability testing. *DIMACS Series in Discrete Mathematics and Theoretical Computer Science*, **1996**, 521-531		137
34	Knowledge compilation and theory approximation. *Journal of the ACM*, **1996**, 43, 193-224	2	115
33	Chapter 2 Satisfiability Solvers. *Foundations of Artificial Intelligence*, **2008**, 3, 89-134		97
32	Critical behavior in the computational cost of satisfiability testing. *Artificial Intelligence*, **1996**, 81, 273-295	3.6	70
31	Unstructured human activity detection from RGBD images **2012**,		69
30	Heavy-tailed distributions in combinatorial search. *Lecture Notes in Computer Science*, **1997**, 121-135	0.9	62
29	2+p-SAT: Relation of typical-case complexity to the nature of the phase transition. *Random Structures and Algorithms*, **1999**, 15, 414-435	0.8	49
28	Sensor networks and distributed CSP: communication, computation and complexity. *Artificial Intelligence*, **2005**, 161, 117-147	3.6	41
27	A New Approach to Model Counting. *Lecture Notes in Computer Science*, **2005**, 324-339	0.9	38
26	The state of SAT. *Discrete Applied Mathematics*, **2007**, 155, 1514-1524	1	29
25	Bottom-up design of software agents. *Communications of the ACM*, **1994**, 37, 143-146	2.5	26
24	Artificial intelligence for materials discovery. *MRS Bulletin*, **2019**, 44, 538-544	3.2	25

23	Hill-climbing Search **2006**,		25
22	Statistical Regimes Across Constrainedness Regions. *Constraints*, **2005**, 10, 317-337	0.3	19
21	A Bayesian Approach to Tackling Hard Computational Problems (Preliminary Report). *Electronic Notes in Discrete Mathematics*, **2001**, 9, 376-391	0.3	17
20	Formal Models of Heavy-Tailed Behavior in Combinatorial Search. *Lecture Notes in Computer Science* , **2001**, 408-421	0.9	17
19	Accelerating Random Walks. *Lecture Notes in Computer Science*, **2002**, 216-232	0.9	17
18	Computer science. Satisfied with physics. *Science*, **2002**, 297, 784-5	33.3	14
17	Leveraging Belief Propagation, Backtrack Search, and Statistics for Model Counting **2008**, 127-141		13
16	Regular Random k-SAT: Properties of Balanced Formulas. *Journal of Automated Reasoning*, **2006**, 35, 181-200	1	11
15	Ten Challenges Redux: Recent Progress in Propositional Reasoning and Search. *Lecture Notes in Computer Science*, **2003**, 1-18	0.9	10
14	Synthesizing manipulation sequences for under-specified tasks using unrolled Markov Random Fields **2014**,		9
13	Automating crystal-structure phase mapping by combining deep learning with constraint reasoning. *Nature Machine Intelligence*, **2021**, 3, 812-822	22.5	6
12	Learning policies for battery usage optimization in electric vehicles. *Machine Learning*, **2013**, 92, 177-1944		5
11	Watch-Bot: Unsupervised learning for reminding humans of forgotten actions **2016**,		5
10	Leveraging belief propagation, backtrack search, and statistics for model counting. *Annals of Operations Research*, **2011**, 184, 209-231	3.2	4
9	HYBRID SEARCH STRATEGIES FOR HETEROGENEOUS SEARCH SPACES. *International Journal on Artificial Intelligence Tools*, **2000**, 09, 45-57	0.9	4
8	Learning Policies for Battery Usage Optimization in Electric Vehicles. *Lecture Notes in Computer Science*, **2012**, 195-210	0.9	4
7	2+p-SAT: Relation of typical-case complexity to the nature of the phase transition **1999**, 15, 414		4
6	Compute-intensive methods in artificial intelligence. *Annals of Mathematics and Artificial Intelligence*, **2000**, 28, 35-38	0.8	3

5	Bayes-Nash equilibria for m th price auctions with multiple closing times **2007**, 6, 27-36		2
4	Communication and Computation in Distributed CSP Algorithms. *Multiagent Systems, Artificial Societies, and Simulated Organizations*, **2003**, 299-318		2
3	Algorithmic Adventures at the Interface of Computer Science, Statistical Physics, and Combinatorics. *Lecture Notes in Computer Science*, **2004**, 9-12	0.9	2
2	Special issue on learning and intelligent optimization. *Annals of Mathematics and Artificial Intelligence*, **2010**, 60, 1-2	0.8	1
1	DPLL: The Core of Modern Satisfiability Solvers. *Outstanding Contributions To Logic*, **2016**, 315-335	1.9	