

Bart Selman

List of Publications by Year in Descending Order

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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	Automating crystal-structure phase mapping by combining deep learning with constraint reasoning. <i>Nature Machine Intelligence</i> , 2021 , 3, 812-822	22.5	6
39	Artificial intelligence for materials discovery. <i>MRS Bulletin</i> , 2019 , 44, 538-544	3.2	25
38	Watch-Bot: Unsupervised learning for reminding humans of forgotten actions 2016 ,		5
37	DPLL: The Core of Modern Satisfiability Solvers. <i>Outstanding Contributions To Logic</i> , 2016 , 315-335	1.9	
36	Synthesizing manipulation sequences for under-specified tasks using unrolled Markov Random Fields 2014 ,		9
35	Learning policies for battery usage optimization in electric vehicles. <i>Machine Learning</i> , 2013 , 92, 177-194		5
34	Unstructured human activity detection from RGBD images 2012 ,		69
33	Learning Policies for Battery Usage Optimization in Electric Vehicles. <i>Lecture Notes in Computer Science</i> , 2012 , 195-210	0.9	4
32	Leveraging belief propagation, backtrack search, and statistics for model counting. <i>Annals of Operations Research</i> , 2011 , 184, 209-231	3.2	4
31	Special issue on learning and intelligent optimization. <i>Annals of Mathematics and Artificial Intelligence</i> , 2010 , 60, 1-2	0.8	1
30	Chapter 2 Satisfiability Solvers. <i>Foundations of Artificial Intelligence</i> , 2008 , 3, 89-134		97
29	Leveraging Belief Propagation, Backtrack Search, and Statistics for Model Counting 2008 , 127-141		13
28	The state of SAT. <i>Discrete Applied Mathematics</i> , 2007 , 155, 1514-1524	1	29
27	Bayes-Nash equilibria for m th price auctions with multiple closing times 2007 , 6, 27-36		2
26	Hill-climbing Search 2006 ,		25
25	Regular Random k-SAT: Properties of Balanced Formulas. <i>Journal of Automated Reasoning</i> , 2006 , 35, 181-200	1	11
24	A New Approach to Model Counting. <i>Lecture Notes in Computer Science</i> , 2005 , 324-339	0.9	38

23	Sensor networks and distributed CSP: communication, computation and complexity. <i>Artificial Intelligence</i> , 2005 , 161, 117-147	3.6	41
22	Statistical Regimes Across Constrainedness Regions. <i>Constraints</i> , 2005 , 10, 317-337	0.3	19
21	Algorithmic Adventures at the Interface of Computer Science, Statistical Physics, and Combinatorics. <i>Lecture Notes in Computer Science</i> , 2004 , 9-12	0.9	2
20	Communication and Computation in Distributed CSP Algorithms. <i>Multiagent Systems, Artificial Societies, and Simulated Organizations</i> , 2003 , 299-318		2
19	Ten Challenges Redux: Recent Progress in Propositional Reasoning and Search. <i>Lecture Notes in Computer Science</i> , 2003 , 1-18	0.9	10
18	Computer science. Satisfied with physics. <i>Science</i> , 2002 , 297, 784-5	33.3	14
17	Accelerating Random Walks. <i>Lecture Notes in Computer Science</i> , 2002 , 216-232	0.9	17
16	Algorithm portfolios. <i>Artificial Intelligence</i> , 2001 , 126, 43-62	3.6	260
15	A Bayesian Approach to Tackling Hard Computational Problems (Preliminary Report). <i>Electronic Notes in Discrete Mathematics</i> , 2001 , 9, 376-391	0.3	17
14	Formal Models of Heavy-Tailed Behavior in Combinatorial Search. <i>Lecture Notes in Computer Science</i> , 2001 , 408-421	0.9	17
13	Heavy-Tailed Phenomena in Satisfiability and Constraint Satisfaction Problems. <i>Journal of Automated Reasoning</i> , 2000 , 24, 67-100	1	190
12	Compute-intensive methods in artificial intelligence. <i>Annals of Mathematics and Artificial Intelligence</i> , 2000 , 28, 35-38	0.8	3
11	HYBRID SEARCH STRATEGIES FOR HETEROGENEOUS SEARCH SPACES. <i>International Journal on Artificial Intelligence Tools</i> , 2000 , 09, 45-57	0.9	4
10	Determining computational complexity from characteristic phase transitions. <i>Nature</i> , 1999 , 400, 133-137	50.4	482
9	2+p-SAT: Relation of typical-case complexity to the nature of the phase transition. <i>Random Structures and Algorithms</i> , 1999 , 15, 414-435	0.8	49
8	2+p-SAT: Relation of typical-case complexity to the nature of the phase transition 1999 , 15, 414		4
7	Heavy-tailed distributions in combinatorial search. <i>Lecture Notes in Computer Science</i> , 1997 , 121-135	0.9	62
6	Referral Web. <i>Communications of the ACM</i> , 1997 , 40, 63-65	2.5	457

5	Knowledge compilation and theory approximation. <i>Journal of the ACM</i> , 1996 , 43, 193-224	2	115
4	Generating hard satisfiability problems. <i>Artificial Intelligence</i> , 1996 , 81, 17-29	3.6	149
3	Critical behavior in the computational cost of satisfiability testing. <i>Artificial Intelligence</i> , 1996 , 81, 273-295	5.6	70
2	Local search strategies for satisfiability testing. <i>DIMACS Series in Discrete Mathematics and Theoretical Computer Science</i> , 1996 , 521-531		137
1	Bottom-up design of software agents. <i>Communications of the ACM</i> , 1994 , 37, 143-146	2.5	26