

# Rina Dechter

## List of Publications by Year in descending order

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42  
papers

3,563  
citations

377584

21  
h-index

325983

40  
g-index

42  
all docs

42  
docs citations

42  
times ranked

1682  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reasoning with Probabilistic and Deterministic Graphical Models: Exact Algorithms, Second Edition. Synthesis Lectures on Artificial Intelligence and Machine Learning, 2019, 13, 1-199.	0.6	4
2	Accelerating exact and approximate inference for (distributed) discrete optimization with GPUs. Constraints, 2018, 23, 1-43.	0.4	15
3	Subproblem ordering heuristics for AND/OR best-first search. Journal of Computer and System Sciences, 2018, 94, 41-62.	0.9	2
4	Weighted heuristic anytime search: new schemes for optimization over graphical models. Annals of Mathematics and Artificial Intelligence, 2017, 79, 77-128.	0.9	3
5	Memory-Efficient Tree Size Prediction for Depth-First Search in Graphical Models. Lecture Notes in Computer Science, 2014, , 481-496.	1.0	4
6	Anytime AND/OR Depth-First Search for Combinatorial Optimization. Lecture Notes in Computer Science, 2014, , 933-937.	1.0	12
7	Reasoning with Probabilistic and Deterministic Graphical Models: Exact Algorithms. Synthesis Lectures on Artificial Intelligence and Machine Learning, 2013, 7, 1-191.	0.6	29
8	Anytime AND/OR depth-first search for combinatorial optimization. AI Communications, 2012, 25, 211-227.	0.8	15
9	Importance sampling-based estimation over AND/OR search spaces for graphical models. Artificial Intelligence, 2012, 184-185, 38-77.	3.9	1
10	Sampling-based lower bounds for counting queries. Intelligenza Artificiale, 2011, 5, 171-188.	1.0	3
11	SampleSearch: Importance sampling in presence of determinism. Artificial Intelligence, 2011, 175, 694-729.	3.9	44
12	Evaluating the impact of AND/OR search on 0-1 integer linear programming. Constraints, 2010, 15, 29-63.	0.4	3
13	Join-Graph Propagation Algorithms. Journal of Artificial Intelligence Research, 2010, 37, 279-328.	7.0	18
14	AND/OR Branch-and-Bound search for combinatorial optimization in graphical models. Artificial Intelligence, 2009, 173, 1457-1491.	3.9	53
15	Memory intensive AND/OR search for combinatorial optimization in graphical models. Artificial Intelligence, 2009, 173, 1492-1524.	3.9	20
16	Mixed deterministic and probabilistic networks. Annals of Mathematics and Artificial Intelligence, 2008, 54, 3-51.	0.9	19
17	AND/OR search spaces for graphical models. Artificial Intelligence, 2007, 171, 73-106.	3.9	115
18	Best-First AND/OR Search for 0/1 Integer Programming. Lecture Notes in Computer Science, 2007, , 171-185.	1.0	3

#	ARTICLE	IF	CITATIONS
19	Tractable Structures for Constraint Satisfaction Problems. Foundations of Artificial Intelligence, 2006, , 209-244.	0.9	26
20	AND/OR Branch-and-Bound Search for Pure 0/1 Integer Linear Programming Problems. Lecture Notes in Computer Science, 2006, , 152-166.	1.0	6
21	Unifying tree decompositions for reasoning in graphical models. Artificial Intelligence, 2005, 166, 165-193.	3.9	51
22	Title is missing!. Constraints, 2003, 8, 303-326.	0.4	35
23	Mini-buckets. Journal of the ACM, 2003, 50, 107-153.	1.8	100
24	A general scheme for automatic generation of search heuristics from specification dependencies Preliminary versions of this paper were presented in [15,16,18]. This work was supported in part by NSF grant IIS-0086529 and by MURI ONR award N00014-00-1-0617.. Artificial Intelligence, 2001, 129, 91-131.	3.9	54
25	Resolution versus Search: Two Strategies for SAT. Journal of Automated Reasoning, 2000, 24, 225-275.	1.1	61
26	Bucket elimination: A unifying framework for reasoning. Artificial Intelligence, 1999, 113, 41-85.	3.9	341
27	Maintenance scheduling problems as benchmarks for constraint algorithms. Annals of Mathematics and Artificial Intelligence, 1999, 26, 149-170.	0.9	10
28	Bucket Elimination: a Unifying Framework for Processing Hard and Soft Constraints. Constraints, 1997, 2, 51-55.	0.4	17
29	Local and global relational consistency. Theoretical Computer Science, 1997, 173, 283-308.	0.5	72
30	On computing minimal models. Annals of Mathematics and Artificial Intelligence, 1996, 18, 3-27.	0.9	33
31	Default reasoning using classical logic. Artificial Intelligence, 1996, 84, 113-150.	3.9	23
32	Uncovering trees in constraint networks. Artificial Intelligence, 1996, 86, 245-267.	3.9	3
33	Propositional semantics for disjunctive logic programs. Annals of Mathematics and Artificial Intelligence, 1994, 12, 53-87.	0.9	164
34	Experimental evaluation of preprocessing algorithms for constraint satisfaction problems. Artificial Intelligence, 1994, 68, 211-241.	3.9	73
35	Structure identification in relational data. Artificial Intelligence, 1992, 58, 237-270.	3.9	111
36	Enhancement schemes for constraint processing: Backjumping, learning, and cutset decomposition. Artificial Intelligence, 1990, 41, 273-312.	3.9	311

#	ARTICLE	IF	CITATIONS
37	Decomposing a relation into a tree of binary relations. Journal of Computer and System Sciences, 1990, 41, 2-24.	0.9	23
38	Tree clustering for constraint networks. Artificial Intelligence, 1989, 38, 353-366.	3.9	368
39	Network-Based Heuristics for Constraint-Satisfaction Problems. , 1988, , 370-425.		131
40	Network-based heuristics for constraint-satisfaction problems. Artificial Intelligence, 1987, 34, 1-38.	3.9	435
41	Generalized best-first search strategies and the optimality of A*. Journal of the ACM, 1985, 32, 505-536.	1.8	750
42	Residual-Guided Look-Ahead in AND/OR Search for Graphical Models. Journal of Artificial Intelligence Research, 0, 60, 287-346.	7.0	2