

Francesco Scarcello

List of Publications by Year in descending order

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58
papers

2,386
citations

471371

17
h-index

223716

46
g-index

61
all docs

61
docs citations

61
times ranked

828
citing authors

#	ARTICLE	IF	CITATIONS
1	The DLV system for knowledge representation and reasoning. ACM Transactions on Computational Logic, 2006, 7, 499-562.	0.7	737
2	Hypertree Decompositions and Tractable Queries. Journal of Computer and System Sciences, 2002, 64, 579-627.	0.9	255
3	A comparison of structural CSP decomposition methods. Artificial Intelligence, 2000, 124, 243-282.	3.9	204
4	The complexity of acyclic conjunctive queries. Journal of the ACM, 2001, 48, 431-498.	1.8	141
5	Disjunctive Stable Models: Unfounded Sets, Fixpoint Semantics, and Computation. Information and Computation, 1997, 135, 69-112.	0.5	132
6	Robbers, marshals, and guards: game theoretic and logical characterizations of hypertree width. Journal of Computer and System Sciences, 2003, 66, 775-808.	0.9	80
7	Fixed-parameter complexity in AI and nonmonotonic reasoning. Artificial Intelligence, 2002, 138, 55-86.	3.9	74
8	A deductive system for non-monotonic reasoning. Lecture Notes in Computer Science, 1997, , 363-374.	1.0	70
9	Hypertree decompositions and tractable queries. , 1999, , .		54
10	Hypertree Decompositions. , 2016, , .		45
11	A New Distributed Application and Network Layer Protocol for VoIP in Mobile Ad Hoc Networks. IEEE Transactions on Mobile Computing, 2014, 13, 2185-2198.	3.9	37
12	On the complexity of core, kernel, and bargaining set. Artificial Intelligence, 2011, 175, 1877-1910.	3.9	30
13	Hypertree Decompositions: A Survey. Lecture Notes in Computer Science, 2001, , 37-57.	1.0	27
14	Computing LOGCFL certificates. Theoretical Computer Science, 2002, 270, 761-777.	0.5	26
15	Pure Nash equilibria. , 2003, , .		25
16	Semantical and computational aspects of Horn approximations. Artificial Intelligence, 2000, 119, 1-17.	3.9	24
17	Fair Cost Allocation in Cellular-Bluetooth Cooperation Scenarios. IEEE Transactions on Wireless Communications, 2011, 10, 2566-2576.	6.1	24
18	Enhancing DLV instantiator by backjumping techniques. Annals of Mathematics and Artificial Intelligence, 2007, 51, 195-228.	0.9	19

#	ARTICLE	IF	CITATIONS
19	Tractable Optimization Problems through Hypergraph-Based Structural Restrictions. Lecture Notes in Computer Science, 2009, , 16-30.	1.0	19
20	On the complexity of some inductive logic programming problems. New Generation Computing, 1999, 17, 53-75.	2.5	16
21	On Tractable Queries and Constraints. Lecture Notes in Computer Science, 1999, , 1-15.	1.0	15
22	Abductive logic programs with penalization: semantics, complexity and implementation. Theory and Practice of Logic Programming, 2005, 5, 123-159.	1.1	14
23	Weighted hypertree decompositions and optimal query plans. Journal of Computer and System Sciences, 2007, 73, 475-506.	0.9	14
24	Energy-Saving Analysis in Cellular WLAN Cooperative Scenarios. IEEE Transactions on Vehicular Technology, 2014, 63, 478-484.	3.9	14
25	Improving ASP Instantiators by Join-Ordering Methods. Lecture Notes in Computer Science, 2001, , 280-294.	1.0	13
26	Robbers, marshals, and guards. , 2001, , .		12
27	Hypertree Decompositions for Query Optimization. , 2007, , .		12
28	On the Shapley value and its application to the Italian VQR research assessment exercise. Journal of Informetrics, 2019, 13, 87-104.	1.4	12
29	Weighted hypertree decompositions and optimal query plans. , 2004, , .		11
30	Structural tractability of enumerating CSP solutions. Constraints, 2013, 18, 38-74.	0.4	11
31	Treewidth and Hypertree Width. , 2014, , 3-38.		11
32	The power of tree projections. , 2010, , .		10
33	Greedy strategies and larger islands of tractability for conjunctive queries and constraint satisfaction problems. Information and Computation, 2017, 252, 201-220.	0.5	10
34	The Power of Local Consistency in Conjunctive Queries and Constraint Satisfaction Problems. SIAM Journal on Computing, 2017, 46, 1111-1145.	0.8	10
35	Fixed-Parameter Complexity in AI and Nonmonotonic Reasoning. Lecture Notes in Computer Science, 1999, , 1-18.	1.0	10
36	Uniform Constraint Satisfaction Problems and Database Theory. Lecture Notes in Computer Science, 2008, , 156-195.	1.0	10

#	ARTICLE	IF	CITATIONS
37	On the power of structural decompositions of graph-based representations of constraint problems. Artificial Intelligence, 2010, 174, 382-409.	3.9	8
38	H-DB. , 2011, , .		8
39	On the complexity of some Inductive Logic Programming problems. Lecture Notes in Computer Science, 1997, , 17-32.	1.0	7
40	Optimal models of disjunctive logic programs: semantics, complexity, and computation. IEEE Transactions on Knowledge and Data Engineering, 2004, 16, 487-502.	4.0	7
41	Counting solutions to conjunctive queries. , 2014, , .		7
42	Query answering exploiting structural properties. SIGMOD Record, 2005, 34, 91-99.	0.7	7
43	On the complexity of constrained Nash equilibria in graphical games. Theoretical Computer Science, 2009, 410, 3901-3924.	0.5	6
44	On the complexity of regular-grammars with integer attributes. Journal of Computer and System Sciences, 2011, 77, 393-421.	0.9	6
45	The Complexity of the Nucleolus in Compact Games. ACM Transactions on Computation Theory, 2015, 7, 1-52.	0.4	6
46	Computing the Shapley value in allocation problems: approximations and bounds, with an application to the Italian VQR research assessment program. Journal of Experimental and Theoretical Artificial Intelligence, 2018, 30, 505-524.	1.8	6
47	Tree Projections: Hypergraph Games and Minimality. Lecture Notes in Computer Science, 2008, , 736-747.	1.0	6
48	Fair division rules for funds distribution: The case of the Italian Research Assessment Program (VQR) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.0	5
49	The Complexity of Computing Maximin Share Allocations on Graphs. Proceedings of the AAAI Conference on Artificial Intelligence, 2020, 34, 2006-2013.	3.6	5
50	On the complexity of computing peer agreements for consistent query answering in peer-to-peer data integration systems. , 2005, , .		4
51	Tree projections and structural decomposition methods: Minimality and game-theoretic characterization. Theoretical Computer Science, 2014, 522, 95-114.	0.5	4
52	Tree projections and constraint optimization problems: Fixed-parameter tractability and parallel algorithms. Journal of Computer and System Sciences, 2018, 94, 11-40.	0.9	4
53	Coalitional games induced by matching problems: Complexity and islands of tractability for the Shapley value. Artificial Intelligence, 2020, 278, 103180.	3.9	4
54	Structural Tractability of Enumerating CSP Solutions. Lecture Notes in Computer Science, 2010, , 236-251.	1.0	3

#	ARTICLE	IF	CITATIONS
55	On the expressive power of ordered logic. <i>AI Communications</i> , 1996, 9, 4-13.	0.8	2
56	Propositional lower bounds: Algorithms and complexity. <i>Annals of Mathematics and Artificial Intelligence</i> , 1999, 27, 129-148.	0.9	2
57	Tree Projections: Game Characterization and Computational Aspects. <i>Lecture Notes in Computer Science</i> , 2009, , 217-226.	1.0	1
58	Game Theoretic Approaches for Wireless Cooperative Content-Sharing. <i>Advances in Wireless Technologies and Telecommunication Book Series</i> , 0, , 399-426.	0.3	0