Stefano Bistarelli

List of Publications by Year
in descending order

154 papers	1,958 citations	471509 17 h-index	361022 35 g-index
180 all docs	180 docs citations	180 times ranked	854 citing authors

#	Article	IF	Citations
1	Stochastic modeling and analysis of the bitcoin protocol in the presence of block communication delays. Concurrency Computation Practice and Experience, 2023, 35, .	2.2	3
2	Timed Concurrent Language for Argumentation: An Interleaving Approach. Lecture Notes in Computer Science, 2022, , 101-116.	1.3	2
3	ConArgLib: an argumentation library with support to search strategies and parallel search. Journal of Experimental and Theoretical Artificial Intelligence, 2021, 33, 891-918.	2.8	4
4	Introducing a Tool for Concurrent Argumentation. Lecture Notes in Computer Science, 2021, , 18-24.	1.3	4
5	Towards an Implementation of a Concurrent Language for Argumentation. Lecture Notes in Computer Science, 2021, , 154-171.	1.3	2
6	Kruskal with embedded C-semirings to solve MST problems with partially-ordered costs. Information Processing Letters, 2021, 169, 106107.	0.6	0
7	Analysis of Ethereum Smart Contracts and Opcodes. Advances in Intelligent Systems and Computing, 2020, , 546-558.	0.6	6
8	Abstract argumentation and (optimal) stable marriage problems. Argument and Computation, 2020, 11, 15-40.	1.1	1
9	Probabilistic abstract argumentation frameworks, a possible world view. International Journal of Approximate Reasoning, 2020, 119, 204-219.	3.3	11
10	Preface to the Special Issue on Advances in Argumentation in Artificial Intelligence. Intelligenza Artificiale, 2020, 13, 121-122.	1.6	0
11	Power index-based semantics for ranking arguments in abstract argumentation frameworks. Intelligenza Artificiale, 2020, 13, 137-154.	1.6	1
12	Ethereum smart contracts: Analysis and statistics of their source code and opcodes. Internet of Things (Netherlands), 2020, 11, 100198.	7.7	21
13	Energy allocation and payment: a game-theoretic approach. Annals of Mathematics and Artificial Intelligence, 2020, 88, 793-816.	1.3	0
14	Studying forward looking bubbles in Bitcoin/USD exchange rates. , 2019, , .		1
15	Model-based arbitrage in multi-exchange models for Bitcoin price dynamics. Digital Finance, 2019, 1, 23-46.	1.7	14
16	CapBAC in Hyperledger Sawtooth. Lecture Notes in Computer Science, 2019, , 152-169.	1.3	2
17	A Possible World View and a Normal Form for the Constellation Semantics. Lecture Notes in Computer Science, 2019, , 58-68.	1.3	1
18	Is Arbitrage Possible in the Bitcoin Market? (Work-In-Progress Paper). Lecture Notes in Computer Science, 2019, , 243-251.	1.3	6

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19	End-to-End Voting with Non-Permissioned and Permissioned Ledgers. Journal of Grid Computing, 2019, 17, 97-118.	3.9	20
20	Implementing Ranking-Based Semantics in ConArg. , 2019, , .		0
21	Special issue of the Knowledge Representation and Reasoning Track, Symposium on Applied Computing (SAC) 2017. Fundamenta Informaticae, 2019, 166, 139-140.	0.4	0
22	An Analysis of Non-standard Transactions. Frontiers in Blockchain, 2019, 2, .	2.6	15
23	A Suite of Tools for the Forensic Analysis of Bitcoin Transactions: Preliminary Report. Lecture Notes in Computer Science, 2019, , 329-341.	1.3	7
24	Well-Foundedness in Weighted Argumentation Frameworks. Lecture Notes in Computer Science, 2019, , 69-84.	1.3	3
25	23rd RCRA International workshop on â€œExperimental evaluation of algorithms for solving problems with combinatorial explosionâ€• Journal of Experimental and Theoretical Artificial Intelligence, 2018, 30, 479-480.	2.8	0
26	A novel weighted defence and its relaxation in abstract argumentation. International Journal of Approximate Reasoning, 2018, 92, 66-86.	3.3	20
27	On Modeling Multi-experts Multi-criteria Decision-Making Argumentation and Disagreement: Philosophical and Computational Approaches Reconsidered. Studies in Systems, Decision and Control, 2018, , 67-75.	1.0	0
28	An Analysis of Non-standard Bitcoin Transactions. , 2018, , .		13
29	Probabilistic Argumentation Frameworks with MetaProbLog and ConArg. , 2018, , .		4
30	Not only size, but also shape counts: abstract argumentation solvers are benchmark-sensitive. Journal of Logic and Computation, 2018, 28, 85-117.	0.8	12
31	Architecting the Web of Things for the fog computing era. IET Software, 2018, 12, 381-389.	2.1	14
32	Abstract Argumentation Frameworks to Promote Fairness and Rationality in Multi-experts Multi-criteria Decision Making. Studies in Systems, Decision and Control, 2018, , 7-19.	1.0	0
33	From Argumentation Frameworks to Voting Systems and Back*. Fundamenta Informaticae, 2017, 150, 25-48.	0.4	7
34	On merging two trust-networks in one with bipolar preferences. Mathematical Structures in Computer Science, 2017, 27, 215-233.	0.6	2
35	Go with the -Bitcoin- Flow, with Visual Analytics. , 2017, , .		28
36	PrOnto: an Ontology Driven Business Process Mining Tool. Procedia Computer Science, 2017, 112, 306-315.	2.0	8

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37	A community payment scheme for consciousness energy usage. , 2017, , .		0
38	A ConArg-Based Library for Abstract Argumentation. , 2017, , .		8
39	A Formal and Run-Time Framework for the Adaptation of Local Behaviours to Match a Global Property. Lecture Notes in Computer Science, 2017, , 134-152.	1.3	5
40	A Hasse Diagram for Weighted Sceptical Semantics with a Unique-Status Grounded Semantics. Lecture Notes in Computer Science, 2017, , 49-56.	1.3	6
41	An end-to-end voting-system based on bitcoin. , 2017, , .		39
42	Theoretical Computer Science in Italy. Theoretical Computer Science, 2016, 629, 1.	0.9	0
43	A Relaxation of Internal Conflict and Defence in Weighted Argumentation Frameworks. Lecture Notes in Computer Science, 2016, , 127-143.	1.3	7
44	Automated adaptation via quantitative partial model checking. , 2016, , .		3
45	Timed soft concurrent constraint programs: An interleaved and a parallel approach. Theory and Practice of Logic Programming, 2015, 15, 743-782.	1.5	4
46	A Comparative Test on the Enumeration of Extensions in Abstract Argumentation*. Fundamenta Informaticae, 2015, 140, 263-278.	0.4	10
47	Session details: Volume II: Software development, system software and security: Constraint solving and programming track. , 2015, , .		0
48	A Secure Non-monotonic Soft Concurrent Constraint Language. Fundamenta Informaticae, 2014, 134, 261-285.	0.4	5
49	Efficient Solution for Credulous/Sceptical Acceptance in Lower-Order Dung's Semantics. , 2014, , .		2
50	An Improved Role-Based Access to Android Applications with JCHR. , 2014, , .		0
51	Two trust networks in one: Using bipolar structures to fuse trust and distrust. , 2014, , .		2
52	Enumerating Extensions on Random Abstract-AFs with ArgTools, Aspartix, ConArg2, and Dung-O-Matic. Lecture Notes in Computer Science, 2014, , 70-86.	1.3	4
53	Interchangeability with thresholds and degradation factors for Soft CSPs. Annals of Mathematics and Artificial Intelligence, 2013, 67, 123-163.	1.3	2
54	Coalitions of Arguments: An Approach with Constraint Programming. Fundamenta Informaticae, 2013, 124, 383-401.	0.4	13

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55	Solving Fuzzy Distributed CSPs: An Approach with Naming Games. Lecture Notes in Computer Science, 2013, , 116-135.	1.3	2
56	A secure coordination of agents with nonmonotonic soft Concurrent Constraint Programming. , 2012, , .		4
57	Evaluation of complex security scenarios using defense trees and economic indexes. Journal of Experimental and Theoretical Artificial Intelligence, 2012, 24, 161-192.	2.8	17
58	Towards a similarity-based web service discovery through soft constraint satisfaction problems. , 2012, , .		2
59	Semiring-based constraint models and frameworks for security-related scenarios. , 2012, , .		0
60	A semiring-based framework for the deduction/abduction reasoning in access control with weighted credentials. Computers and Mathematics With Applications, 2012, 64, 447-462.	2.7	4
61	Local arc consistency for non-invertible semirings, with an application to multi-objective optimization. Expert Systems With Applications, 2012, 39, 1708-1717.	7.6	3
62	Negotiation of Weighted RTML Credentials on Mobile Devices. , 2012, , 429-438.		2
63	Modeling and Solving AFs with a Constraint-Based Tool: ConArg. Lecture Notes in Computer Science, 2012, , 99-116.	1.3	12
64	Securely Accessing Shared Resources with Concurrent Constraint Programming. Lecture Notes in Computer Science, 2012, , 308-322.	1.3	2
65	Solving Fuzzy DCSPs with Naming Games. , 2011, , .		1
66	ConArg: A Constraint-Based Computational Framework for Argumentation Systems. , 2011, , .		27
67	A Nonmonotonic Soft Concurrent Constraint Language to Model the Negotiation Process. Fundamenta Informaticae, 2011, 111, 257-279.	0.4	6
68	Uncertainty in bipolar preference problems. Journal of Experimental and Theoretical Artificial Intelligence, 2011, 23, 545-575.	2.8	4
69	Finding partitions of arguments with Dung's properties via SCSPs. , 2011, , .		3
70	Semiring‐based frameworks for trust propagation in small‐world networks and coalition formation criteria. Security and Communication Networks, 2010, 3, 595-610.	1.5	11
71	Solving Distributed CSPs Probabilistically. Fundamenta Informaticae, 2010, 105, 57-78.	0.4	4
72	Unicast and multicast QoS routing with soft-constraint logic programming. ACM Transactions on Computational Logic, 2010, 12, 1-48.	0.9	22

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73	From soft constraints to bipolar preferences: modelling framework and solving issues. Journal of Experimental and Theoretical Artificial Intelligence, 2010, 22, 135-158.	2.8	20
74	A Formal Framework for Trust Policy Negotiation in Autonomic Systems: Abduction with Soft Constraints. Lecture Notes in Computer Science, 2010, , 268-282.	1.3	7
75	Extending Soft Arc Consistency Algorithms to Non-invertible Semirings. Lecture Notes in Computer Science, 2010, , 386-398.	1.3	1
76	A Nonmonotonic Soft Concurrent Constraint Language for SLA Negotiation. Electronic Notes in Theoretical Computer Science, 2009, 236, 147-162.	0.9	18
77	Solving finite domain constraint hierarchies by local consistency and tree search. Journal of Experimental and Theoretical Artificial Intelligence, 2009, 21, 233-257.	2.8	3
78	Capturing Fair Computations on Concurrent Constraint Language. Lecture Notes in Computer Science, 2009, , 559-560.	1.3	1
79	Constraint Based Languages for Biological Reactions. Lecture Notes in Computer Science, 2009, , 561-562.	1.3	1
80	Soft Constraints for Dependable Service Oriented Architectures. Lecture Notes in Computer Science, 2009, , 76-97.	1.3	2
81	Solving CSPs with Naming Games. Lecture Notes in Computer Science, 2009, , 16-32.	1.3	1
82	From Marriages to Coalitions: A Soft CSP Approach. Lecture Notes in Computer Science, 2009, , 1-15.	1.3	3
83	C-semiring Frameworks for Minimum Spanning Tree Problems. Lecture Notes in Computer Science, 2009, , 56-70.	1.3	1
84	Analyzing Security Scenarios Using Defence Trees and Answer Set Programming. Electronic Notes in Theoretical Computer Science, 2008, 197, 121-129.	0.9	16
85	Propagating multitrust within trust networks. , 2008, , .		13
86	Weighted Datalog and Levels of Trust. , 2008, , .		10
87	A Formal and Practical Framework for Constraint-Based Routing. , 2008, , .		3
88	Timed Soft Concurrent Constraint Programs. , 2008, , 50-66.		12
89	Semiring-Based Soft Constraints. Lecture Notes in Computer Science, 2008, , 155-173.	1.3	8
90	A Soft Approach to Multi-objective Optimization. Lecture Notes in Computer Science, 2008, , 764-768.	1.3	6

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91	SCLP for Trust Propagation in Small-World Networks. Lecture Notes in Computer Science, 2008, , 32-46.	1.3	1
92	A Semantic Foundation for Trust Management Languages with Weights: An Application to the RT Family. Lecture Notes in Computer Science, 2008, , 481-495.	1.3	14
93	Using CP-nets as a guide for countermeasure selection. , 2007, , .		27
94	Bipolar Preference Problems: Framework, Properties and Solving Techniques. Lecture Notes in Computer Science, 2007, , 78-92.	1.3	8
95	Uncertainty in Bipolar Preference Problems. Lecture Notes in Computer Science, 2007, , 782-789.	1.3	4
96	An Optimization Approach using Soft Constraints for the Cascade Vulnerability Problem. , 2007, , .		2
97	Modelling Multicast QoS Routing by using Best-Tree Search in And-or Graphs and Soft Constraint Logic Programming. Electronic Notes in Theoretical Computer Science, 2007, 190, 111-127.	0.9	13
98	Soft constraint based pattern mining. Data and Knowledge Engineering, 2007, 62, 118-137.	3.4	17
99	Augmented Risk Analysis. Electronic Notes in Theoretical Computer Science, 2007, 168, 207-220.	0.9	2
100	Strategic Games on Defense Trees. Lecture Notes in Computer Science, 2007, , 1-15.	1.3	35
101	Answer Set Optimization for and/or Composition of CP-Nets: A Security Scenario. , 2007, , 773-781.		0
102	An asymmetric fingerprint matching algorithm for Java Card TM. Pattern Analysis and Applications, 2006, 9, 359-376.	4.6	25
103	Soft Constraints for Security. Electronic Notes in Theoretical Computer Science, 2006, 142, 11-29.	0.9	2
104	Special track editorial. , 2006, , .		0
105	Soft concurrent constraint programming. ACM Transactions on Computational Logic, 2006, 7, 563-589.	0.9	52
106	Defense trees for economic evaluation of security investments. , 2006, , .		102
107	Extending the Soft Constraint Based Mining Paradigm. , 2006, , 24-41.		4
108	Principles of Secure Network Configuration: Towards a Formal Basis for Self-configuration. Lecture Notes in Computer Science, 2006, , 168-180.	1.3	2

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109	Information Assurance for security protocols. Computers and Security, 2005, 24, 322-333.	6.0	7
110	Relating multiset rewriting and process algebras for security protocol analysis. Journal of Computer Security, 2005, 13, 3-47.	0.8	17
111	A soft constraint-based approach to the cascade vulnerability problem. Journal of Computer Security, 2005, 13, 699-720.	0.8	4
112	MOC via TOC Using a Mobile Agent Framework. Lecture Notes in Computer Science, 2005, , 464-473.	1.3	2
113	A Protocolâ€™s Life After Attacks.... Lecture Notes in Computer Science, 2005, , 3-10.	1.3	2
114	Interestingness is Not a Dichotomy: Introducing Softness in Constrained Pattern Mining. Lecture Notes in Computer Science, 2005, , 22-33.	1.3	17
115	Interchangeability in Soft CSPs. , 2005, , 59-93.		0
116	Modeling and detecting the cascade vulnerability problem using soft constraints. , 2004, , .		8
117	Soft Constraint Propagation and Solving in Constraint Handling Rules. Computational Intelligence, 2004, 20, 287-307.	3.2	11
118	Confidentiality Levels and Deliberate/Indeliberate Protocol Attacks. Lecture Notes in Computer Science, 2004, , 104-119.	1.3	8
119	Soft constraint programming to analysing security protocols. Theory and Practice of Logic Programming, 2004, 4, 545-572.	1.5	11
120	Reasoning about Secure Interoperation Using Soft Constraints. , 2004, , 173-186.		1
121	Tradeoff Generation Using Soft Constraints. Lecture Notes in Computer Science, 2004, , 124-139.	1.3	1
122	Semirings for Soft Constraint Solving and Programming. Lecture Notes in Computer Science, 2004, , .	1.3	103
123	Experimental Evaluation of Interchangeability in Soft CSPs. Lecture Notes in Computer Science, 2004, , 140-153.	1.3	0
124	8. Soft Concurrent Constraint Programming. Lecture Notes in Computer Science, 2004, , 191-212.	1.3	5
125	Abstracting Soft Constraints: Some Experimental Results on Fuzzy CSPs. Lecture Notes in Computer Science, 2004, , 107-123.	1.3	2
126	5. Higher Order Semiring-Based Constraints. Lecture Notes in Computer Science, 2004, , 125-136.	1.3	0

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127	10. SCSPs for Modelling Attacks to Security Protocols. Lecture Notes in Computer Science, 2004, , 237-262.	1.3	0
128	9. Interchangeability in Soft CSPs. Lecture Notes in Computer Science, 2004, , 213-235.	1.3	0
129	General Properties and Termination Conditions for Soft Constraint Propagation. Constraints, 2003, 8, 79-97.	0.7	3
130	Interchangeability in Soft CSPs. Lecture Notes in Computer Science, 2003, , 31-46.	1.3	8
131	Computer Algebra for Fingerprint Matching. Lecture Notes in Computer Science, 2003, , 811-820.	1.3	4
132	Solving Finite Domain Constraint Hierarchies by Local Consistency and Tree Search. Lecture Notes in Computer Science, 2003, , 138-152.	1.3	4
133	On Representing Biological Systems through Multiset Rewriting. Lecture Notes in Computer Science, 2003, , 415-426.	1.3	12
134	Relating Process Algebras and Multiset Rewriting for Immediate Decryption Protocols. Lecture Notes in Computer Science, 2003, , 86-99.	1.3	3
135	A Constraint Framework for the Qualitative Analysis of Dependability Goals: Integrity. Lecture Notes in Computer Science, 2003, , 130-143.	1.3	2
136	Soft constraint propagation and solving in CHRs. , 2002, , .		11
137	Abstracting soft constraints: Framework, properties, examples. Artificial Intelligence, 2002, 139, 175-211.	5.8	38
138	Soft Constraint Logic Programming and Generalized Shortest Path Problems. Journal of Heuristics, 2002, 8, 25-41.	1.4	21
139	Soft Concurrent Constraint Programming. Lecture Notes in Computer Science, 2002, , 53-67.	1.3	13
140	Interchangeability in Soft CSPs. Lecture Notes in Computer Science, 2002, , 726-731.	1.3	4
141	Soft constraint propagation and solving in CHRs. , 2002, , .		2
142	Semiring-based constraint logic programming. ACM Transactions on Programming Languages and Systems, 2001, 23, 1-29.	2.1	63
143	Soft Constraints for Security Protocol Analysis: Confidentiality. Lecture Notes in Computer Science, 2001, , 108-122.	1.3	12
144	Constraint Propagation for Soft Constraints: Generalization and Termination Conditions. Lecture Notes in Computer Science, 2000, , 83-97.	1.3	9

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145	Labeling and Partial Local Consistency for Soft Constraint Programming. Lecture Notes in Computer Science, 1999, , 230-248.	1.3	10
146	Semiring-based constraint satisfaction and optimization. Journal of the ACM, 1997, 44, 201-236.	2.2	523
147	Semiring-based CSPs and valued CSPs: Basic properties and comparison. Lecture Notes in Computer Science, 1996, , 111-150.	1.3	39
148	Analysis of integrity policies using soft constraints. , 0, , .		8
149	Encoding partial constraint satisfaction in the semiring-based framework for soft constraints. , 0, , .		3
150	Advancing assurance for secure distributed communications. , 0, , .		0
151	Soft Constraints for Quality Aspects in Service Oriented Architectures. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 2, 51-65.	0.8	5
152	Fairness as a QoS Measure for Web Services. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 2, 115-127.	0.8	0
153	Multilevel Security and Quality of Protection. , 0, , 93-105.		11
154	A Quantitative Partial Model-Checking Function and Its Optimisation. , 0, , .		0