Roberto Giuntini

List of Publications by Year
in descending order

94 papers	1,318 citations	394421 19 h-index	414414 32 g-index
104 all docs	104 docs citations	104 times ranked	273 citing authors

#	Article	IF	Citations
1	Toward a formal language for unsharp properties. Foundations of Physics, 1989, 19, 931-945.	1.3	164
2	Reasoning in Quantum Theory. Trends in Logic, 2004, , .	0.2	160
3	Quantum Logics. , 2002, , 129-228.		54
4	MV-Algebras and Quantum Computation. Studia Logica, 2006, 82, 245-270.	0.6	51
5	Paraconsistent quantum logics. Foundations of Physics, 1989, 19, 891-904.	1.3	44
6	LOGICS FROM QUANTUM COMPUTATION. International Journal of Quantum Information, 2005, 03, 293-337.	1.1	42
7	Quantum MV algebras. Studia Logica, 1996, 56, 393-417.	0.6	40
8	Partial and unsharp quantum logics. Foundations of Physics, 1994, 24, 1161-1177.	1.3	37
9	A new quantum approach to binary classification. PLoS ONE, 2019, 14, e0216224.	2.5	35
10	BZMVdM algebras and stonian MV-algebras (applications to fuzzy sets and rough approximations). Fuzzy Sets and Systems, 1999, 108, 201-222.	2.7	33
11	Quantum information, cognition, and music. Frontiers in Psychology, 2015, 6, 1583.	2.1	29
12	Quantum logics and Lindenbaum property. Studia Logica, 1987, 46, 17-35.	0.6	28
13	Entanglement as a Semantic Resource. Foundations of Physics, 2010, 40, 1494-1518.	1.3	25
14	A quantum-inspired classifier for clonogenic assay evaluations. Scientific Reports, 2021, 11, 2830.	3.3	25
15	Brouwer-Zadeh logic and the operational approach to quantum mechanics. Foundations of Physics, 1990, 20, 701-714.	1.3	23
16	Fuzzy intuitionistic quantum logics. Studia Logica, 1993, 52, 419-442.	0.6	23
17	A quantum-inspired version of the nearest mean classifier. Soft Computing, 2018, 22, 691-705.	3.6	23
18	An Unsharp Logic from Quantum Computation. International Journal of Theoretical Physics, 2004, 43, 1803-1817.	1.2	22

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19	Expanding Quasi-MV Algebras by a Quantum Operator. Studia Logica, 2007, 87, 99-128.	0.6	22
20	On the Structure of Pseudo BL-algebras and Pseudo Hoops in Quantum Logics. Foundations of Physics, 2010, 40, 1519-1542.	1.3	20
21	A Quantum-inspired Version of the Classification Problem. International Journal of Theoretical Physics, 2017, 56, 3880-3888.	1.2	20
22	The Logic of Quasi-MV Algebras. Journal of Logic and Computation, 2010, 20, 619-643.	0.8	18
23	Quasilinear QMV Algebras. International Journal of Theoretical Physics, 1995, 34, 1397-1407.	1.2	17
24	A New View of Effects in a Hilbert Space. Studia Logica, 2016, 104, 1145-1177.	0.6	17
25	A semantical investigation on Brouwer-Zadeh logic. Journal of Philosophical Logic, 1991, 20, 411.	0.9	16
26	Epistemic Quantum Computational Structures in a Hilbert-space Environment. Fundamenta Informaticae, 2012, 115, 1-14.	0.4	16
27	Compositional and holistic quantum computational semantics. Natural Computing, 2007, 6, 113-132.	3.0	15
28	The Algebraic Structure of an Approximately Universal System of Quantum Computational Gates. Foundations of Physics, 2009, 39, 559-572.	1.3	14
29	Some results on BZ structures from Hilbertian unsharp quantum physics. Foundations of Physics, 1995, 25, 1147-1183.	1.3	13
30	The logics of orthoalgebras. Studia Logica, 1995, 55, 3-22.	0.6	13
31	On Some Properties of PBZ*-Lattices. International Journal of Theoretical Physics, 2017, 56, 3895-3911.	1.2	13
32	Quantum-inspired minimum distance classification in a biomedical context. International Journal of Quantum Information, 2018, 16, 1840011.	1.1	12
33	A Quantum Approach to Vagueness and to the Semantics of Music. International Journal of Theoretical Physics, 2015, 54, 4546-4556.	1.2	11
34	A many-valued approach to quantum computational logics. Fuzzy Sets and Systems, 2018, 335, 94-111.	2.7	11
35	Quantum teleportation and quantum epistemic semantics. Mathematica Slovaca, 2012, 62, .	0.6	10
36	A Quantum Computational Semantics for Epistemic Logical Operators. Part II: Semantics. International Journal of Theoretical Physics, 2014, 53, 3293-3307.	1.2	9

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37	Some generalizations of fuzzy structures in quantum computational logic. International Journal of General Systems, 2011, 40, 61-83.	2.5	8
38	A first-order epistemic quantum computational semantics with relativistic-like epistemic effects. Fuzzy Sets and Systems, 2016, 298, 69-90.	2.7	8
39	Holistic logical arguments in quantum computation. Mathematica Slovaca, 2016, 66, 313-334.	0.6	8
40	Quantum Computation and Logic. Trends in Logic, 2018, , .	0.2	8
41	The Leibniz principle in quantum logic. International Journal of Theoretical Physics, 1989, 28, 159-168.	1.2	7
42	Three-valued Brouwer-zadeh logic. International Journal of Theoretical Physics, 1993, 32, 1875-1887.	1.2	7
43	Quantum Computational Semantics on Fock Space. International Journal of Theoretical Physics, 2005, 44, 2219-2230.	1.2	7
44	Quantum Logic and Nonclassical Logics. , 2009, , 127-226.		7
45	Brouwer-Zadeh logic, decidability and bimodal systems. Studia Logica, 1992, 51, 97-112.	0.6	6
46	Effect Algebras and Para-Boolean Manifolds. International Journal of Theoretical Physics, 2000, 39, 551-564.	1.2	6
47	Pre-BZ and Degenerate BZ Posets: Applications to Fuzzy Sets and Unsharp Quantum Theories. Foundations of Physics, 2000, 30, 1765-1799.	1.3	6
48	Logics from $sqrt{^{prime}}$ Quasi-MV Algebras. International Journal of Theoretical Physics, 2011, 50, 3882-3902.	1.2	6
49	A Quantum Computational Semantics for Epistemic Logical Operators. Part I: Epistemic Structures. International Journal of Theoretical Physics, 2014, 53, 3279-3292.	1.2	6
50	Quantum MV-Algebras and Commutativity. International Journal of Theoretical Physics, 1998, 37, 65-74.	1.2	5
51	Ideals and congruences in effect algebras and qmv-algebras. Communications in Algebra, 2000, 28, 1567-1592.	0.6	5
52	From Quantum Mechanics to Music. Advanced Science Letters, 2008, 1, 169-178.	0.2	5
53	Semantic alternatives in Brouwer-Zadeh logics. International Journal of Theoretical Physics, 1992, 31, 1653-1667.	1.2	4
54	Holistic Quantum Computational Semantics and Gestalt-Thinking. AIP Conference Proceedings, 2006, , .	0.4	4

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55	The History of Quantum Logic. Handbook of the History of Logic, 2007, , 205-283.	0.5	4
56	Categorical Equivalences for Formula quasi-MV Algebras. Journal of Logic and Computation, 2010, 20, 795-810.	0.8	4
57	Probability in quantum computation and quantum computational logics: a survey. Mathematical Structures in Computer Science, 2014, 24, .	0.6	4
58	Entanglement and Quantum Logical Gates. Part I.. International Journal of Theoretical Physics, 2015, 54, 4518-4529.	1.2	4
59	On some properties of directoids. Soft Computing, 2015, 19, 955-964.	3.6	4
60	Unsharp Orthoalgebras and Quantum MV Algebras. , 1995, , 325-337.		3
61	Paraconsistent ideas in quantum logic. SynthÃˆse, 2000, 125, 55-68.	1.1	3
62	Weakly linear quantum MV-algebras. Algebra Universalis, 2005, 53, 45-72.	0.3	3
63	QUANTUM COMPUTATIONAL LOGICS AND FOCK SPACE SEMANTICS. International Journal of Quantum Information, 2005, 03, 9-16.	1.1	3
64	A discriminator variety of GÃ¶del algebras with operators arising in quantum computation. Fuzzy Sets and Systems, 2009, 160, 1082-1098.	2.7	3
65	Abstract quantum computing machines and quantum computational logics. International Journal of Quantum Information, 2016, 14, 1640019.	1.1	3
66	A quantum-like semantic analysis of ambiguity in music. Soft Computing, 2017, 21, 1473-1481.	3.6	3
67	Probabilities and Epistemic Operations in the Logics of Quantum Computation. Entropy, 2018, 20, 837.	2.2	3
68	Quantum Logics and Relative Lindenbaum Property. Annalen Der Physik, 1989, 501, 293-302.	2.4	2
69	How Many Notions of â€œSharpâ€?. International Journal of Theoretical Physics, 1999, 38, 3153-3161.	1.2	2
70	Qubit Semantics and Quantum Trees. International Journal of Theoretical Physics, 2005, 44, 971-983.	1.2	2
71	Two cooperative versions of the Guessing Secrets problem. Information Sciences, 2009, 179, 3645-3658.	6.9	2
72	The Lattice of Subvarieties of $${sqrt{prime}}$$ quasi-MV Algebras. Studia Logica, 2010, 95, 37-61.	0.6	2

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73	The Toffoli-Hadamard Gate System: an Algebraic Approach. Journal of Philosophical Logic, 2013, 42, 467-481.	0.9	2
74	Reversibility and Irreversibility in Quantum Computation and in Quantum Computational Logics. Lecture Notes in Computer Science, 2007, , 84-106.	1.3	2
75	Quantum Computational Logics and Possible Applications. International Journal of Theoretical Physics, 2008, 47, 44-60.	1.2	1
76	Representing Fuzzy Structures in Quantum Computation with Mixed States. , 2010, , .		1
77	Holistic Type Extension for Classical Logic via Toffoli Quantum Gate. Entropy, 2019, 21, 636.	2.2	1
78	Constructivism and Operationalism in the Foundations of Quantum Mechanics. , 1995, , 21-31.		1
79	Quantum Information and Music. Reviews in Theoretical Science, 2015, 3, 145-154.	0.5	1
80	What Is Fuzzy Logic â€" And Why It Matters to Us. Studies in Fuzziness and Soft Computing, 2013, , 211-215.	0.8	1
81	The Mathematical Environment of Quantum Information. Trends in Logic, 2018, , 1-30.	0.2	1
82	Expanding Lattice Ordered Abelian Groups to Riesz Spaces. Mathematica Slovaca, 2022, 72, 1-10.	0.6	1
83	Physical Interpretations of the Lukasiewicz Quantum Logical Connectives. , 1995, , 179-185.		0
84	A fuzzy dynamic semantics for quantum histories. Soft Computing, 1997, 1, 137-142.	3.6	0
85	A short history of the problems. Soft Computing, 2001, 5, 126-128.	3.6	0
86	Holism, ambiguity and approximation in the logics of quantum computation: a survey. International Journal of General Systems, 2011, 40, 85-98.	2.5	0
87	QUANTUM LOGIC ASSOCIATED TO FINITE DIMENSIONAL INTERVALS OF MODULAR ORTHOLATTICES. Journal of Symbolic Logic, 2016, 81, 629-640.	0.5	0
88	The Quantum Logical Challenge: Peter Mittelstaedtâ€™s Contributions to Logic and Philosophy of Science. International Journal of Theoretical Physics, 2017, 56, 3935-3940.	1.2	0
89	Quantum Logic. , 0, , 439-473.		0
90	A Survey of Fuzzy Intuitionistic Logics in Quantum Mechanics. , 1993, , 333-344.		0

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91	Logic and Probability in Quantum Mechanics. , 1994, , 147-167.		0
92	Dynamic Ideas in Quantum Logic. , 1999, , 175-182.		0
93	Ambiguity in Natural and Artistic Languages: A Quantum Semantic Analysis. Trends in Logic, 2018, , 139-150.	0.2	0
94	From Quantum Circuits to Quantum Computational Logics. Trends in Logic, 2018, , 65-84.	0.2	0