

# Roberto Giuntini

## List of Publications by Year in descending order

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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  | Expanding Lattice Ordered Abelian Groups to Riesz Spaces. <i>Mathematica Slovaca</i> , 2022, 72, 1-10.   | 0.6 | 1         |
| 2  | A quantum-inspired classifier for clonogenic assay evaluations. <i>Scientific Reports</i> , 2021, 11, 2830.  | 3.3 | 25        |
| 3  | Holistic Type Extension for Classical Logic via Toffoli Quantum Gate. <i>Entropy</i> , 2019, 21, 636.  | 2.2 | 1         |
| 4  | A new quantum approach to binary classification. <i>PLoS ONE</i> , 2019, 14, e0216224.   | 2.5 | 35        |
| 5  | A quantum-inspired version of the nearest mean classifier. <i>Soft Computing</i> , 2018, 22, 691-705.  | 3.6 | 23        |
| 6  | A many-valued approach to quantum computational logics. <i>Fuzzy Sets and Systems</i> , 2018, 335, 94-111.   | 2.7 | 11        |
| 7  | Probabilities and Epistemic Operations in the Logics of Quantum Computation. <i>Entropy</i> , 2018, 20, 837.   | 2.2 | 3         |
| 8  | Quantum-inspired minimum distance classification in a biomedical context. <i>International Journal of Quantum Information</i> , 2018, 16, 1840011.                               | 1.1 | 12        |
| 9  | Quantum Computation and Logic. <i>Trends in Logic</i> , 2018, , .  | 0.2 | 8         |
| 10 | Ambiguity in Natural and Artistic Languages: A Quantum Semantic Analysis. <i>Trends in Logic</i> , 2018, , 139-150.  | 0.2 | 0         |
| 11 | The Mathematical Environment of Quantum Information. <i>Trends in Logic</i> , 2018, , 1-30.  | 0.2 | 1         |
| 12 | From Quantum Circuits to Quantum Computational Logics. <i>Trends in Logic</i> , 2018, , 65-84.   | 0.2 | 0         |
| 13 | A quantum-like semantic analysis of ambiguity in music. <i>Soft Computing</i> , 2017, 21, 1473-1481.   | 3.6 | 3         |
| 14 | A Quantum-inspired Version of the Classification Problem. <i>International Journal of Theoretical Physics</i> , 2017, 56, 3880-3888.   | 1.2 | 20        |
| 15 | On Some Properties of PBZ*-Lattices. <i>International Journal of Theoretical Physics</i> , 2017, 56, 3895-3911.  | 1.2 | 13        |
| 16 | The Quantum Logical Challenge: Peter Mittelstaedt's Contributions to Logic and Philosophy of Science. <i>International Journal of Theoretical Physics</i> , 2017, 56, 3935-3940. | 1.2 | 0         |
| 17 | A first-order epistemic quantum computational semantics with relativistic-like epistemic effects. <i>Fuzzy Sets and Systems</i> , 2016, 298, 69-90.                              | 2.7 | 8         |
| 18 | Abstract quantum computing machines and quantum computational logics. <i>International Journal of Quantum Information</i> , 2016, 14, 1640019.                                   | 1.1 | 3         |

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|----|---|-----|-----------|
| 19 | QUANTUM LOGIC ASSOCIATED TO FINITE DIMENSIONAL INTERVALS OF MODULAR ORTHOLATTICES. Journal of Symbolic Logic, 2016, 81, 629-640.                                    | 0.5 | 0         |
| 20 | Holistic logical arguments in quantum computation. Mathematica Slovaca, 2016, 66, 313-334.  | 0.6 | 8         |
| 21 | A New View of Effects in a Hilbert Space. Studia Logica, 2016, 104, 1145-1177.  | 0.6 | 17        |
| 22 | Quantum information, cognition, and music. Frontiers in Psychology, 2015, 6, 1583.  | 2.1 | 29        |
| 23 | Entanglement and Quantum Logical Gates. Part I.. International Journal of Theoretical Physics, 2015, 54, 4518-4529.   | 1.2 | 4         |
| 24 | On some properties of directoids. Soft Computing, 2015, 19, 955-964.  | 3.6 | 4         |
| 25 | A Quantum Approach to Vagueness and to the Semantics of Music. International Journal of Theoretical Physics, 2015, 54, 4546-4556.                                   | 1.2 | 11        |
| 26 | Quantum Information and Music. Reviews in Theoretical Science, 2015, 3, 145-154.  | 0.5 | 1         |
| 27 | Probability in quantum computation and quantum computational logics: a survey. Mathematical Structures in Computer Science, 2014, 24, .                             | 0.6 | 4         |
| 28 | A Quantum Computational Semantics for Epistemic Logical Operators. Part II: Semantics. International Journal of Theoretical Physics, 2014, 53, 3293-3307.           | 1.2 | 9         |
| 29 | A Quantum Computational Semantics for Epistemic Logical Operators. Part I: Epistemic Structures. International Journal of Theoretical Physics, 2014, 53, 3279-3292. | 1.2 | 6         |
| 30 | The Toffoli-Hadamard Gate System: an Algebraic Approach. Journal of Philosophical Logic, 2013, 42, 467-481.   | 0.9 | 2         |
| 31 | What Is Fuzzy Logic “ And Why It Matters to Us. Studies in Fuzziness and Soft Computing, 2013, , 211-215.   | 0.8 | 1         |
| 32 | Quantum teleportation and quantum epistemic semantics. Mathematica Slovaca, 2012, 62, .   | 0.6 | 10        |
| 33 | Epistemic Quantum Computational Structures in a Hilbert-space Environment. Fundamenta Informaticae, 2012, 115, 1-14.  | 0.4 | 16        |
| 34 | Some generalizations of fuzzy structures in quantum computational logic. International Journal of General Systems, 2011, 40, 61-83.                                 | 2.5 | 8         |
| 35 | Logics from $\sqrt{\prime}$ Quasi-MV Algebras. International Journal of Theoretical Physics, 2011, 50, 3882-3902.   | 1.2 | 6         |
| 36 | Holism, ambiguity and approximation in the logics of quantum computation: a survey. International Journal of General Systems, 2011, 40, 85-98.                      | 2.5 | 0         |

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|----|--|-----|-----------|
| 37 | The Lattice of Subvarieties of $\sqrt{\prime}$ quasi-MV Algebras. <i>Studia Logica</i> , 2010, 95, 37-61.  | 0.6 | 2         |
| 38 | On the Structure of Pseudo BL-algebras and Pseudo Hoops in Quantum Logics. <i>Foundations of Physics</i> , 2010, 40, 1519-1542.                          | 1.3 | 20        |
| 39 | Entanglement as a Semantic Resource. <i>Foundations of Physics</i> , 2010, 40, 1494-1518.  | 1.3 | 25        |
| 40 | The Logic of Quasi-MV Algebras. <i>Journal of Logic and Computation</i> , 2010, 20, 619-643.   | 0.8 | 18        |
| 41 | Categorical Equivalences for Formula quasi-MV Algebras. <i>Journal of Logic and Computation</i> , 2010, 20, 795-810.                                     | 0.8 | 4         |
| 42 | Representing Fuzzy Structures in Quantum Computation with Mixed States. , 2010, , .  |     | 1         |
| 43 | The Algebraic Structure of an Approximately Universal System of Quantum Computational Gates. <i>Foundations of Physics</i> , 2009, 39, 559-572.          | 1.3 | 14        |
| 44 | A discriminator variety of Gödel algebras with operators arising in quantum computation. <i>Fuzzy Sets and Systems</i> , 2009, 160, 1082-1098.           | 2.7 | 3         |
| 45 | Two cooperative versions of the Guessing Secrets problem. <i>Information Sciences</i> , 2009, 179, 3645-3658.  | 6.9 | 2         |
| 46 | Quantum Logic and Nonclassical Logics. , 2009, , 127-226.  |     | 7         |
| 47 | Quantum Computational Logics and Possible Applications. <i>International Journal of Theoretical Physics</i> , 2008, 47, 44-60.                           | 1.2 | 1         |
| 48 | From Quantum Mechanics to Music. <i>Advanced Science Letters</i> , 2008, 1, 169-178.   | 0.2 | 5         |
| 49 | The History of Quantum Logic. <i>Handbook of the History of Logic</i> , 2007, , 205-283.   | 0.5 | 4         |
| 50 | Compositional and holistic quantum computational semantics. <i>Natural Computing</i> , 2007, 6, 113-132.   | 3.0 | 15        |
| 51 | Expanding Quasi-MV Algebras by a Quantum Operator. <i>Studia Logica</i> , 2007, 87, 99-128.  | 0.6 | 22        |
| 52 | Reversibility and Irreversibility in Quantum Computation and in Quantum Computational Logics. <i>Lecture Notes in Computer Science</i> , 2007, , 84-106. | 1.3 | 2         |
| 53 | MV-Algebras and Quantum Computation. <i>Studia Logica</i> , 2006, 82, 245-270.   | 0.6 | 51        |
| 54 | Holistic Quantum Computational Semantics and Gestalt-Thinking. <i>AIP Conference Proceedings</i> , 2006, , .   | 0.4 | 4         |

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|----|--|-----|-----------|
| 55 | Weakly linear quantum MV-algebras. <i>Algebra Universalis</i> , 2005, 53, 45-72.   | 0.3 | 3         |
| 56 | Qubit Semantics and Quantum Trees. <i>International Journal of Theoretical Physics</i> , 2005, 44, 971-983.  | 1.2 | 2         |
| 57 | Quantum Computational Semantics on Fock Space. <i>International Journal of Theoretical Physics</i> , 2005, 44, 2219-2230.                          | 1.2 | 7         |
| 58 | QUANTUM COMPUTATIONAL LOGICS AND FOCK SPACE SEMANTICS. <i>International Journal of Quantum Information</i> , 2005, 03, 9-16.                       | 1.1 | 3         |
| 59 | LOGICS FROM QUANTUM COMPUTATION. <i>International Journal of Quantum Information</i> , 2005, 03, 293-337.  | 1.1 | 42        |
| 60 | An Unsharp Logic from Quantum Computation. <i>International Journal of Theoretical Physics</i> , 2004, 43, 1803-1817.                              | 1.2 | 22        |
| 61 | Reasoning in Quantum Theory. <i>Trends in Logic</i> , 2004, , .  | 0.2 | 160       |
| 62 | Quantum Logics. , 2002, , 129-228.   |     | 54        |
| 63 | A short history of the problems. <i>Soft Computing</i> , 2001, 5, 126-128.   | 3.6 | 0         |
| 64 | Effect Algebras and Para-Boolean Manifolds. <i>International Journal of Theoretical Physics</i> , 2000, 39, 551-564.                               | 1.2 | 6         |
| 65 | Paraconsistent ideas in quantum logic. <i>Synth se</i> , 2000, 125, 55-68.   | 1.1 | 3         |
| 66 | Pre-BZ and Degenerate BZ Posets: Applications to Fuzzy Sets and Unsharp Quantum Theories. <i>Foundations of Physics</i> , 2000, 30, 1765-1799.     | 1.3 | 6         |
| 67 | Ideals and congruences in effect algebras and qmv-algebras. <i>Communications in Algebra</i> , 2000, 28, 1567-1592.                                | 0.6 | 5         |
| 68 | BZMVdM algebras and stonian MV-algebras (applications to fuzzy sets and rough approximations). <i>Fuzzy Sets and Systems</i> , 1999, 108, 201-222. | 2.7 | 33        |
| 69 | How Many Notions of ‘‘Sharp’’?. <i>International Journal of Theoretical Physics</i> , 1999, 38, 3153-3161.   | 1.2 | 2         |
| 70 | Dynamic Ideas in Quantum Logic. , 1999, , 175-182.   |     | 0         |
| 71 | Quantum MV-Algebras and Commutativity. <i>International Journal of Theoretical Physics</i> , 1998, 37, 65-74.                                      | 1.2 | 5         |
| 72 | A fuzzy dynamic semantics for quantum histories. <i>Soft Computing</i> , 1997, 1, 137-142.   | 3.6 | 0         |

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|----|---|-----|-----------|
| 73 | Quantum MV algebras. <i>Studia Logica</i> , 1996, 56, 393-417.  | 0.6 | 40        |
| 74 | Some results on BZ structures from Hilbertian unsharp quantum physics. <i>Foundations of Physics</i> , 1995, 25, 1147-1183. | 1.3 | 13        |
| 75 | The logics of orthoalgebras. <i>Studia Logica</i> , 1995, 55, 3-22.   | 0.6 | 13        |
| 76 | Quasilinear QMV Algebras. <i>International Journal of Theoretical Physics</i> , 1995, 34, 1397-1407.                        | 1.2 | 17        |
| 77 | Physical Interpretations of the Lukasiewicz Quantum Logical Connectives. , 1995, , 179-185.                                 |     | 0         |
| 78 | Unsharp Orthoalgebras and Quantum MV Algebras. , 1995, , 325-337.   |     | 3         |
| 79 | Constructivism and Operationalism in the Foundations of Quantum Mechanics. , 1995, , 21-31.                                 |     | 1         |
| 80 | Partial and unsharp quantum logics. <i>Foundations of Physics</i> , 1994, 24, 1161-1177.                                    | 1.3 | 37        |
| 81 | Logic and Probability in Quantum Mechanics. , 1994, , 147-167.  |     | 0         |
| 82 | Fuzzy intuitionistic quantum logics. <i>Studia Logica</i> , 1993, 52, 419-442.  | 0.6 | 23        |
| 83 | Three-valued Brouwer-zadeh logic. <i>International Journal of Theoretical Physics</i> , 1993, 32, 1875-1887.                | 1.2 | 7         |
| 84 | A Survey of Fuzzy Intuitionistic Logics in Quantum Mechanics. , 1993, , 333-344.  |     | 0         |
| 85 | Brouwer-Zadeh logic, decidability and bimodal systems. <i>Studia Logica</i> , 1992, 51, 97-112.                             | 0.6 | 6         |
| 86 | Semantic alternatives in Brouwer-Zadeh logics. <i>International Journal of Theoretical Physics</i> , 1992, 31, 1653-1667.   | 1.2 | 4         |
| 87 | A semantical investigation on Brouwer-Zadeh logic. <i>Journal of Philosophical Logic</i> , 1991, 20, 411.                   | 0.9 | 16        |
| 88 | Brouwer-Zadeh logic and the operational approach to quantum mechanics. <i>Foundations of Physics</i> , 1990, 20, 701-714.   | 1.3 | 23        |
| 89 | Paraconsistent quantum logics. <i>Foundations of Physics</i> , 1989, 19, 891-904.   | 1.3 | 44        |
| 90 | Toward a formal language for unsharp properties. <i>Foundations of Physics</i> , 1989, 19, 931-945.                         | 1.3 | 164       |

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|----|--|-----|-----------|
| 91 | Quantum Logics and Relative Lindenbaum Property. Annalen Der Physik, 1989, 501, 293-302.                 | 2.4 | 2         |
| 92 | The Leibniz principle in quantum logic. International Journal of Theoretical Physics, 1989, 28, 159-168. | 1.2 | 7         |
| 93 | Quantum logics and Lindenbaum property. Studia Logica, 1987, 46, 17-35.                                  | 0.6 | 28        |
| 94 | Quantum Logic. , 0, , 439-473.   |     | 0         |