

List of Publications

Roberto Giuntini

Books

1. M.L. Dalla Chiara, R. Giuntini, R. Leporini, G. Sergioli, *Quantum Computation and Logic: How Quantum Computers Have Inspired Logical Investigations*, Trends in Logics, Springer, 2018.
(doi: [10.1007/978-3-030-04471-8](https://doi.org/10.1007/978-3-030-04471-8))
2. M.L. Dalla Chiara, R. Giuntini, E. Negri, R. A. Luciani, *From Quantum Information to Musical Semantics*, College Publications, London, 2012.
3. M.L. Dalla Chiara, R. Giuntini, F. Paoli, *Sperimentare la Logica*, Liguori, Napoli, 2004.
4. M.L. Dalla Chiara, R. Giuntini, R. Greechie, *Reasoning in Quantum Theory*, Kluwer, Dordrecht, 2004.
(doi: [10.1007/978-94-017-0526-4](https://doi.org/10.1007/978-94-017-0526-4))
5. R. Giuntini, *Quantum Logic and Hidden Variables*, Bibliographisches Institut, Mannheim, 1991.

Refereed journal articles

6. G. Sergioli, G. Russo, E. Santucci, A. Stefano, S.E. Torrisi, S. Palmucci, C. Vancheri, R. Giuntini, “Quantum-inspired minimum distance classification in a biomedical context”, *International Journal of Quantum Information* **16**, pp. 1–15, 2018.
(doi: [10.1142/S0219749918400117](https://doi.org/10.1142/S0219749918400117))
7. M.L. Dalla Chiara, R. Giuntini, G. Sergioli, R. Leporini, “A many-valued approach to quantum computational logics”, *Fuzzy Sets and Systems* **335**, pp. 94–111, 2018.
(doi: [10.1016/j.fss.2016.12.015](https://doi.org/10.1016/j.fss.2016.12.015))
8. M.L. Dalla Chiara, H. Freytes, R. Giuntini, G. Sergioli, R. Leporini, “Probabilities and epistemic operations in the logics of quantum computation”, *Entropy* **20**, pp. 1–22, 2018.
9. G. Sergioli, E. Santucci, L. Didaci, J. A. Mischczak, R. Giuntini, “A quantum-inspired version of the nearest mean classifier”, *Soft Computing* **22**, pp. 691–705, 2017.
(doi: [10.1007/s00500-016-2478-2](https://doi.org/10.1007/s00500-016-2478-2))
10. E. Beltrametti, M.L. Dalla Chiara, R. Giuntini, “The quantum logical challenge: Peter Mittelstaedt’s contributions to logic and philosophy of science”, *International Journal of Theoretical Physics* **56**, pp. 3935–3940, 2017.
(doi: [10.1007/s10773-017-3383-x](https://doi.org/10.1007/s10773-017-3383-x))

11. G. Sergioli, G. M. Bosyk, E. Santucci, R. Santucci , “A quantum-inspired version of the classification problem”, *International Journal of Theoretical Physics* **56**, pp. 3880–3888, 2017.
(doi: [10.1007/s10773-017-3371-1](https://doi.org/10.1007/s10773-017-3371-1))
12. R. Giuntini, A. Ledda, F. Paoli, “On some properties of PBZ* lattices”, *International Journal of Theoretical Physics* **56**, pp. 3895–3911, 2017.
(doi: [10.1007/s00500-016-2478-2](https://doi.org/10.1007/s00500-016-2478-2))
13. F. Holik, G. Sergioli, H. Freytes, R. Giuntini, A. Plastino, “Toffoli gate and quantum correlations: a geometrical approach”, *Quantum Information Processing* **16**, pp. 16–55, 2017.
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(doi:[dx.doi.org/10.1515/ms-2015-0138](https://doi.org/10.1515/ms-2015-0138))
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