

List of Publications

Ofer Arieli

Books

1. A.Avron, O.Arieli, A.Zamansky. *Theory of Effective Propositional Paraconsistent Logics*. Studies in Logic, volume 75 (sub-series: Mathematical Logic and Foundations), College Publications, 2018 (ISBN: 978-1-84890-270-1).

Articles in Scientific Journals and Book Chapters

1. O.Arieli, A.Avron. Reasoning with logical bilattices. *Journal of Logic, Language, and Information* 5(1), pages 25–63, 1996.
2. O.Arieli, A.Avron. The value of the four values. *Artificial Intelligence* 102(1), pages 97–141, 1998.
3. O.Arieli, A.Avron. A model theoretic approach to recover consistent data from inconsistent knowledge-bases. *Journal of Automated Reasoning* 22(3), pages 263–309, 1999.
4. O.Arieli. Four-valued logics for reasoning with uncertainty in prioritized Data. In: *Information, Uncertainty, Fusion*. B.Bouchon-Meunier, R.R.Yager, and L.A.Zadeh, editors, Kluwer Academic Publishers, pages 293–304, 1999.
5. O.Arieli, A.Avron. Bilattices and paraconsistency. In: *Frontiers of Paraconsistent Logic*. D. Batens, C. Mortensen, G. Priest, and J. Van Bendegem, editors, Studies in Logic and Computation 8, Research Studies Press, pages 11–27, 2000.
6. O.Arieli, A.Avron. General patterns for nonmonotonic reasoning: from basic entailments to plausible relations. *The Logic Journal of the Interest Group in Pure and Applied Logics (IGPL)* 8(2), pages 119–148, 2000.
7. O.Arieli. Paraconsistent declarative semantics for extended logic programs. *Annals of Mathematics and Artificial Intelligence* 36(4), pages 381–417, 2002.
8. O.Arieli, M.Denecker. Reducing preferential paraconsistent reasoning to classical entailment. *Journal of Logic and Computation* 13(4), pages 557–580, 2003.
9. O.Arieli. Reasoning with different levels of uncertainty. *Journal of Applied Non-Classical Logics* 13(3–4), pages 317–343, 2003.
10. O.Arieli, M.Denecker, B.Van Nuffelen, M.Bruynooghe. Coherent integration of databases by abductive logic programming. *Journal of Artificial Intelligence Research* 21, pages 245–286, 2004.
11. O. Arieli, C. Cornelis, G. Deschrijver, E. E. Kerre. Relating intuitionistic fuzzy sets and interval-valued fuzzy sets through bilattices. In: *Applied Computational Intelligence*. D. Ruan, P. D’hondt, M. De Cock, M. Nachtgael, and E.E.Kerre, editors, World Scientific, pages 57–64, 2004.
12. O.Arieli, M.Denecker, B.Van Nuffelen, M.Bruynooghe. Computational methods for database repair by signed formulae. *Annals of Mathematics and Artificial Intelligence* 46(1–2), pages 4–37, 2006.
13. C.Cornelis, O.Arieli, G.Deschrijver, E.Kerre. Uncertainty modeling by bilattice-based squares and triangles. *IEEE Transactions on Fuzzy Systems* 15(2), pages 161–175, 2007.
14. G.Deschrijver, O.Arieli, C.Cornelis, E.Kerre. A bilattice-based framework for handling graded truth and imprecision. *Uncertainty, Fuzziness and Knowledge-Based Systems* 15(1), pages 13–41, 2007.

15. O.Arieli. Paraconsistent reasoning and preferential entailments by signed quantified Boolean formulae. *ACM Transactions on Computational Logic* 8(3), Article 18, 2007.
16. O.Arieli, M.Denecker, M.Bruynooghe. Distance semantics for database repair. *Annals of Mathematics and Artificial Intelligence* 50(3–4), pages 389–415, 2007.
17. O.Arieli. Distance-based paraconsistent logics. *The International Journal of Approximate Reasoning* 48(3), special issue on non-monotonic reasoning and uncertainty, pages 766–783, 2008.
18. O.Arieli. Reasoning with prioritized information by iterative aggregation of distance functions. *Journal of Applied Logic* 6(4), pages 589–605, 2008.
19. O.Arieli, A.Zamansky. Distance-based non-deterministic semantics for reasoning with uncertainty. *The Logic Journal of the Interest Group in Pure and Applied Logics* 17(4), pages 325–350, 2009.
20. M.Denecker, A.Cortés-Calabuig, M.Bruynooghe, O.Arieli. Towards a logical reconstruction of a theory for locally closed databases. *ACM Transactions on Database Systems* 35(3), Article 22, 2010.
21. O.Arieli, A.Zamansky. Simplified forms of computerized reasoning with distance semantics. *Journal of Applied Logic* 9(1), pages 1–22, 2011.
22. O.Arieli, A.Zamansky. A framework for reasoning under uncertainty based on non-deterministic distance semantics. *International Journal of Approximate Reasoning* 52(2), pages 184–211, 2011.
23. O.Arieli, A.Avron, A.Zamansky. Maximal and pre-maximal paraconsistency in the framework of three-valued semantics. *Studia Logica* 97(1), pages 31–60, 2011.
24. O.Arieli, A.Avron, A.Zamansky. Ideal paraconsistent logics. *Studia Logica* 99(1–3), pages 31–60, 2011.
25. O.Arieli, M.Caminada. A QBF-based formalization of abstract argumentation semantics. *Journal of Applied Logic* 11(2), pages 229–252, 2013.
26. O.Arieli, A.Zamansky. A dissimilarity-based framework for generating inconsistency-tolerant logics. *Annals of Mathematics and Artificial Intelligence* 73(1–2), pages 47–73, 2015.
27. O.Arieli, C.Straßer. Sequent-based logical argumentation. *Journal of Argument and Computation* 6(1), pages 73–99, 2015.
28. O.Arieli. Conflict-free and conflict-tolerant semantics for constrained argumentation frameworks. *Journal of Applied Logic* 13(4), pages 582–604, 2015.
29. O.Arieli, A.Avron. Three-valued paraconsistent propositional logics. In: *New Directions in Paraconsistent Logic*, Chapter 4, J.Y.Béziau, M.Chakraborty and S.Dutta, editors, pages 91–129, Springer, 2015.
30. O.Arieli, A.Zamansky. A graded approach to database repair by context-aware distance semantics. *Fuzzy Sets and Systems* 298, pages 4–21, 2016.
31. O.Arieli, C.Straßer. Deductive argumentation by enhanced sequent calculi and dynamic derivations. *Electronic Notes in Theoretical Computer Science* 323, pages 21–37, 2016.
32. O.Arieli. On the acceptance of loops in argumentation frameworks. *Journal of Logic and Computation* 26(4), pages 1203–1234, 2016.
33. O.Arieli, A. Avron. Four-valued parafinite logics. *Studia Logica* 105(6), pages 1087–1122, 2017.
34. O.Arieli, A.Borg, C.Straßer. Reasoning with maximal consistency by argumentative approaches. *Journal of Logic and Computation* 28(7), pages 1523–1563, 2018.
35. C.Straßer, O.Arieli. Normative reasoning by sequent-based argumentation. *Journal of Logic and Computation* 29(3), pages 387–415, 2019.

36. O.Arieli, C.Straßer. Logical argumentation by dynamic proof systems. *Theoretical Computer Science* 781, pages 63–91, 2019.
37. O.Arieli, A.Borg, J.Heyninck. A review of the relations between logical argumentation and reasoning with maximal consistency. *Annals of Mathematics and Artificial Intelligence* 87(3), pages 187–226, 2019.
38. J.Heyninck, O.Arieli. Simple contrapositive assumption-based argumentation frameworks. *Journal of Approximate Reasoning* 121, pages 103–124, 2020.
39. A.Borg, C.Straßer, O.Arieli. A generalized proof-theoretic approach to logical argumentation based on hypersequents. *Studia Logica*, Accepted.

Refereed Papers in Conference Proceedings

1. O.Arieli, A.Avron. Logical bilattices and inconsistent data. *Proceedings of the 9th Annual IEEE Symposium on Logic in Computer Science (LICS'94)*, pages 468–476, IEEE Press, July 1994.
2. O.Arieli, A.Avron. A bilattice-based approach to recover consistent data from inconsistent knowledge-bases. *Proceedings of the 4th Bar-Ilan Symposium on Foundations of Artificial Intelligence (BISFAI'95)*, M.Koppel and E.Shamir, editors, pages 14–23, AAAI Press, June 1995.
3. O.Arieli, A.Avron. Automatic diagnoses for properly stratified knowledge-bases. *Proceedings of the 8th IEEE International Conference on Tools with Artificial Intelligence (ICTAI'96)*, pages 392–399, IEEE Press, November 1996.
4. O.Arieli, A.Avron. Four-valued diagnoses for stratified knowledge-bases. *Proceedings of the Annual Conference of the European Association for Computer Science Logic (CSL'96)*, September 1996 – Selected Papers. Lecture Notes in Computer Science No.1258, D.Van-Dalen and M.Benzem, editors, pages 1–17, Springer Verlag, 1997.
5. O.Arieli. A four-valued approach for handling inconsistency in prioritized knowledge-bases. *Proceedings of the 10th Annual Conference of the Florida Artificial Intelligence Research Society (FLAIRS'97)*, pages 92–96, May 1997.
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7. O.Arieli. Four-valued logics for reasoning with uncertainty in prioritized data. *Proceedings of the 7th Conference on Information Processing and Management of Uncertainty in Knowledge-Base Systems (IPMU'98)*, pages 503–510, Editions EDK publishers, July 1998.
8. O.Arieli, A.Avron. Nonmonotonic and paraconsistent reasoning: From basic entailments to plausible relations. *Proceedings of the 5th European Conference on Symbolic and Quantitative Approaches to Reasoning with Uncertainty (ESCSQARU'99)*, Lecture Notes in Artificial Intelligence No.1638, A.Hunter and S.Parsons, editors, pages 11–22, Springer Verlag, July 1999.
9. O.Arieli. An algorithmic approach to recover inconsistent knowledge-bases. *Proceedings of the 7th European Conference on Logics in Artificial Intelligence (JELIA'00)*, Lecture Notes in Artificial Intelligence No.1919, M.Ojeda-Aciego, I.P.de Guzman, G.Brewka, and L.M.Pereira, editors, pages 148–162, Springer, September 2000.
10. O.Arieli. Reasoning with modularly pointwise preferential relations. *Proceedings of the 12th Belgian–Dutch Artificial Intelligence Conference (BNAIC'00)*, A. van den Bosch and H. Weigand, editors, pages 61–68, BNVKI Association, November 2000.
11. O.Arieli. B.Van Nuffelen, M.Denecker, M.Bruynooghe. Coherent composition of distributed knowledge-bases through abduction. *Proceedings of the 8th International Conference on Logic Programming, Artificial Intelligence and Reasoning (LPAR'01)*, Lecture Notes in Computer Science No.2250, A.Nieuwenhuis, and A.Voronkov, editors, pages 620–635, Springer, December 2001.

12. O.Arieli, M.Denecker. Modeling paraconsistent reasoning by classical logic. *Proceedings of the 2nd International Symposium on Foundations of Information and Knowledge Systems (FoIKS'02)*, Lecture Notes in Computer Science No.2284, T.Eiter and K.D.Schewe, editors, pages 1–14, Springer, February 2002.
13. O.Arieli. Paraconsistent semantics for extended logic programs. *Proceedings of the International Conference of Artificial Intelligence (IC-AI'02)*, H.R.Arabnia and Y.Mun, editors, Vol.III, pages 1199–1205, CMSRA Press, June 2002.
14. O.Arieli, M.Denecker, B.Van Nuffelen, M.Bruynooghe. Repairing inconsistent databases: A model-theoretic approach and abductive reasoning. *Proceedings of the ICLP'02 Workshop on Paraconsistent Computational Logic (PCL'02)*, Federated Logic Conference (FLoC'02), H.Decker, J.Villadsen and T.Waradai, editors, Datalogiske Skrifter Vol.95, pages 51–65, Roskilde University, July 2002.
15. O.Arieli. Preferential logics for reasoning with graded uncertainty. *Proceedings of the 7th European Conference on Symbolic and Quantitative Approaches to Reasoning with Uncertainty (ECSQARU'03)*, Lecture Notes in Artificial Intelligence No.2711, T.D.Nielsen and N.L.Zhang, editors, pages 515–527, Springer, July 2003.
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17. B.Van Nuffelen, A.Cortés-Calabuig, M.Denecker, O.Arieli, M.Bruynooghe. Data integration using ID-logic. *Proceedings of the 16th International Conference on Advanced Information Systems Engineering (CAiSE'04)*, Lecture Notes in Computer Science No.3084, A.Persson and J.Stirna, editors, pages 67–81, Springer, June 2004.
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19. O.Arieli, C.Cornelis, G.Deschrijver, E.Kerre. Relating intuitionistic fuzzy sets and interval-valued fuzzy sets through bilattices. *Proceedings of the 6th International FLINS Conference on Applied Computational Intelligence (FLINS'04)*, D.Ruan et al., editors, World Scientific, pages 57–64, September 2004.
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21. B.Van-Nuffelen, O.Arieli, A.Cortés-Calabuig, M.Bruynooghe. An ID-logic formalization of the composition of autonomous databases. *Proceedings of the 8th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR'05)*, Lecture Notes in Artificial Intelligence No.3662, C.Baral, G.Greco, N.Leone and G.Tarracina, editors, pages 132–144, Springer, September 2005.
22. A.Cortés-Calabuig, M.Denecker, O.Arieli, B.Van-Nuffelen, M.Bruynooghe. On the local closed-world assumption of data-sources. *Proceedings of the 8th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR'05)*, Lecture Notes in Artificial Intelligence No.3662, C.Baral, G.Greco, N.Leone and G.Tarracina, editors, pages 145–157, Springer, September 2005.
23. O.Arieli, C.Cornelis, G.Deschrijver. Preference modeling by rectangular bilattices. *Proceedings of the 3rd International Conference on Modeling Decisions for Artificial Intelligence (MDAI'06)*, Lecture Notes in Artificial Intelligence No.3885, V.Torra et al., editors, pages 22–33, Springer, April 2006.
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25. O.Arieli, M.Denecker, M.Bruynooghe. Distance-based repairs of databases. *Proceedings of the 10th European Conference on Logics in Artificial Intelligence (JELIA'06)*, Lecture Notes in Artificial Intelligence No.4160, M.Fisher et al., editors, pages 43–55, Springer, September 2006.
26. A.Cortés-Calabuig, M.Denecker, O.Arieli, M.Bruynooghe. Representation of partial knowledge and query answering in locally complete databases. *Proceedings of the 13th International Conference on Logic for Programming, Artificial Intelligence and Reasoning (LPAR'06)*, Lecture Notes in Computer Science No.4246, M.Hermann and A.Voronkov, editors, pages 407–421, Springer, November 2006.
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37. O.Arieli. On the application of the Disjunctive Syllogism in paraconsistent logics based on four states of information. *Proceedings of the 12th International Conference on Principles of Knowledge Representation and Reasoning (KR'10)*, pages 302–309, AAAI Press, May 2010.
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41. O.Arieli, A.Avron, A.Zamansky. What is an ideal logic for reasoning with inconsistency? *Proceedings of the 22nd International Joint Conference on Artificial Intelligence (IJCAI'11)*, T.Walsh, editor, pages 706–711, AAAI Press, July 2011.
42. O.Arieli, A.Zamansky. Inconsistency-tolerance in knowledge-based systems by dissimilarities. *Proceedings of the 7th International Symposium on Foundations of Information and Knowledge Systems (FoIKS'12)*, Lecture Notes in Computer Science No.7153, Th.Lukasiewicz and A.Sali, editors, pages 34–50, Springer, March 2012.
43. O.Arieli, M.W.A.Caminada. A general QBF-based formalization of abstract argumentation theory. *Proceedings of the 4th International Conference on Computational Models of Argument (COMMA'12)*, Frontiers in Artificial Intelligence and Applications Vol.245, B. Verheij, S. Szeider and S. Woltran editors, pages 105–116, IOS Press, September 2012.
44. O.Arieli. Conflict-tolerant semantics for argumentation frameworks. *Proceedings of the 13th European Conference on Logics in Artificial Intelligence (JELIA'12)*, Lecture Notes in Artificial Intelligence No.7519, L.Fariñas del Cerro, A.Herzig and J.Mengin editors, pages 28–40, Springer, September 2012.
45. O.Arieli. Towards constraints handling by conflict tolerance in abstract argumentation frameworks. *Proceedings of the 26th International Florida Artificial Intelligence Research Society Conference (FLAIRS'13), Special Track on Uncertain Reasoning*, Ch.Boonthem-Denecke and G.M.Youngblood, editors, pages 585–560, AAAI Press, May 2013.
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47. A.Zamansky, O.Arieli, K.Stefanidis. Context-aware distance semantics for inconsistent database systems. *Proceedings of the 15th International Conference on Information Processing and Management of Uncertainty in Knowledge-Base Systems (IPMU'14) Part II*, Communications in Computer and Information Sciences Vol.443, A.Laurent et al., editors, pages 194–203, Springer, July 2014.
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51. O.Arieli, C.Straßer. Argumentative approaches to reasoning with maximal consistency. *Proceedings of the 15th International Conference on Principles of Knowledge Representation and Reasoning (KR'16)*, Ch.Baral, J.Delgrande and F.Wolter, editors, pages 509–512, AAAI Press, April 2016.

52. O.Arieli, A.Avron. Minimal parafinite logics for reasoning with incompleteness and inconsistency. *Proceedings of the 1st International Conference on Formal Structures for Computation and Deduction (FSCD'16)*, D.Kesner and B.Pientka, editors, LIPIcs Vol.52, pages 7:1–7:15, June 2016.
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62. O.Arieli, A.Borg, C.Straßer. Tuning logical argumentation frameworks: A postulate-derived approach. *Proceedings of the 33rd International Florida Artificial Intelligence Research Society Conference (FLAIRS-33)*, Special Track on Uncertain Reasoning, pages 557–562, AAAI Press, May 2020.
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64. O.Arieli, C.Straßer, On minimality and consistency tolerance in logical argumentation frameworks. *Proceedings of the 8th International Conference on Computational Models of Argument (COMMA'20)*, Frontiers in Artificial Intelligence and Applications Vol.326, IOS press, H.Prakken et al., editors, pages 91–102, IOS Press, September 2020.

65. J.Heyninck, O.Arieli. Argumentative reflections of approximation fixpoint theory. *Proceedings of the 8th International Conference on Computational Models of Argument (COMMA'20)*, Frontiers in Artificial Intelligence and Applications Vol.326, IOS press, H.Prakken et al., editors, pages 215–226, IOS Press,, September 2020.

Guest Editing of Special Issues

1. O.Arieli, B.Konikowska, A.Rabinovich, A.Zamansky. Guest Editors' Foreword. *Journal of Logic and Computation, Special Issue for IsraLog'11, on: Logic – Between Semantics and Proof Theory (in honor of A.Avron's 60th Birthday)*, Volume 26, Issue 1, February 2016.
2. O.Arieli, A.Zamansky. Guest Editors' Preface. *The Logic Journal of the Interest Group in Pure and Applied Logics (IGPL), Special Issue for IsraLog'14*, Volume 24, Number 3, June 2016.
3. O.Arieli, A.Zamansky. Guest Editors' Preface. *Journal of Applied Logic, Special Issue for IsraLog'17*, Volume 6, Number 2, March 2019.

Abstracts or Unpublished Presentations in Scientific Meetings

1. O.Arieli, A.Avron. Bilattices and paraconsistency. *First World Congress on Paraconsistency (WCP'97)*, Ghent, Belgium, August 1997.
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