

List of publications

Dr. Xavier Parent

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Textbook

1. X. Parent and L. van der Torre. *Introduction to Deontic Logic and Normative Systems*, College Publications, Texts in Logic and Reasoning, UK, London, 2018.

Co-editions

2. D. Gabbay, J. Horty, X. Parent, R. van der Meyden and L. van der Torre (eds). *Handbook of Deontic Logic and Normative Systems*, Volume 2, College Publications, London, 2021.
3. C. Benzmüller, X. Parent and F. Ricca, “Logic rules and reasoning: Selected papers from the 2nd International Joint Conference on Rules and Reasoning (RuleML+RR 2018)”, *Journal of Theory and Practice of Logic Programming*, volume 21, number 1, 2021.
4. X. Parent and J. Meheus (guest editors), “Special issue: deontic modalities in natural language” (selected and revised papers from the 12th International Conference on Deontic Logic and Normative Systems, DEON 2014), *Journal of Logic and Computation*, volume 29, issue 3, July 2019.
5. C. Benzmüller, X. Parent and A. Steen (eds.), “Selected student contributions and workshop papers of LuxLogAI 2018”, *EasyChair*, Kalpa Publications in Computing, volume 10, 2019.
6. C. Benzmüller, F. Ricca, X. Parent, D. Roman (eds). *Rules and Reasoning - Second International Joint Conference, RuleML+RR 2018*, Luxembourg, September 18-21, 2018, Proceedings. Lecture Notes in Computer Science Volume 11092, Springer, 2018.
7. D. Gabbay, J. Horty, X. Parent, R. van der Meyden and L. van der Torre (eds). *Handbook of Deontic Logic and Normative Systems*, Volume 1, College Publications, London, 2013.
8. F. Cariani, D. Grossi, J. Meheus and X. Parent (eds), *Deontic Logic and Normative Systems*, 12th International Conference, 2014, July 12-15, 2014. Proceedings. Lecture Notes in Computer Science Volume 8554, Springer, 2014.

Papers in refereed academic journals

9. X. Parent, “A modal embedding of an intuitionistic I/O operation”. In V. de Paiva and S. Artemov (guest eds.), *IfColog*, Volume 8, Number 8, Special issue: Intuitionistic Modal Logic and Applications, September 2021, pp. 2350-2362.
10. C. Benzmüller, X. Parent, L. van der Torre, A. Farjami, D. Fuenmayor, P. Meder, A. Steen, V. Zahoransky, “LogiKEy workbench: deontic logics, logic combi-

- nations and expressive ethical and legal reasoning (Isabelle/HOL dataset)”, In *Data in Brief*, Elsevier, volume 33, number 106409, pp. 1-10, 2020. (Note: data publication)
11. C. Benzmüller, X. Parent and L. van der Torre, “ Designing normative theories for ethical and legal reasoning: LogiKey framework, methodology, and tool support”. *Artificial Intelligence* (special issue “Ethics for autonomous systems”), 2020, 287, pp. 1033-48.
 12. C. Benzmüller, A. Farjami and X. Parent, “Åqvist’s dyadic deontic logic E in HOL”, *IfCoLog*, special issue “Mining and Reasoning with LEgal texts (MIREL)”, 2019, 6(5), pp. 733-755.
 13. C. Benzmüller, A. Farjami, P. Meder and X. Parent, “I/O Logic in HOL”, *IfCoLog*, special issue “Mining and Reasoning with LEgal texts (MIREL)”, 2019, (6)5, pp. 715-732.
 14. X. Parent and L. van der Torre, “I/O logics for normative reasoning”, *Filosofiska*, 2019, 6(1), pp. 189–208.
 15. X. Parent and L. van der Torre, “Detachment in normative systems: examples, inference patterns, properties”, *IfCoLog*, 2017, 4(9), pp. 2295-3039.
 16. X. Parent, “Completeness of Åqvist’s systems E and F”, *Review of Symbolic Logic*, 2015, 8 (1), pp. 164-177.
 17. X. Parent, “Optimality vs maximality in dyadic deontic logic - Completeness results for systems in Hansson’s tradition”, *Journal of Philosophical Logic*, 2014, 43(6), pp. 1101-1128.
 18. D. Gabbay, M. de Boer, X. Parent and M. Slavkovic, “Two-dimensional standard deontic logic”, *Synthese*, 2012, 187(2), pp. 623-660.
 19. X. Parent, “Moral particularism in the light of deontic logic”, *Artificial Intelligence and Law* (DEON’10 special issue), 2011, 19(2-3), pp. 75-98.
 20. X. Parent, “A complete axiom set for Hansson’s deontic logic DSDL2”, *Logic Journal of the IGPL (Interest Group in Pure and Applied Logics)*, 2010, 18(3), pp. 422-429.
 21. A. Jones and X. Parent, “Normative-informational positions - A modal-logical approach”, *Artificial Intelligence and Law*, 2008, 16(1), pp. 7-23.
 22. A. Jones and X. Parent, “A convention-based approach to Agent Communication Languages”, *Group Decision and Negotiation*, 2007, 16, pp. 101-141.
 23. X. Parent, “Remedial interchange, contrary-to-duty obligation, and commutation”, *Journal of Applied Non-Classical Logics*, 2003, 13(3/4), pp. 345-375.
 24. X. Parent, “Cumulativity, identity and time in deontic logic”, *Fundamenta Informaticae*, 2001, 48, pp. 237-252.

Chapters in books

25. C. Benzmüller, A. Farjami and X. Parent, “Dyadic deontic logic in HOL: faithful embedding and meta-theoretical experiments”. In S. Rahman, M. Armgardt and H. C. Nordtveit Kvernenes (eds.), *New Developments in Legal Reasoning and Logic: From Ancient Law to Modern Legal Systems*, volume 23 of *Logic, Argumentation & Reasoning*, Springer, 2022.
26. X. Parent, “Preference-based semantics for Hansson-type dyadic deontic logics: A survey of results”. In D. Gabbay, J. Horty, X. Parent, R. van der Meyden and L. van der Torre (eds), *Handbook of Deontic Logic and Normative Systems*,

Volume 2, College Publications, London, 2021, p. 7-70.

27. X. Parent, D. Gabbay and L. van der Torre, “Intuitionistic basis for input/output logics”. In S. O. Hansson (ed), *David Makinson on Classical Methods for Non-Classical Problems*, Springer, Series Outstanding Contributions to Logic, Vol. 3, 2014, pp. 263-286.
28. X. Parent and L. van der Torre, “Input/output logic”. In D. Gabbay, J. Horty, X. Parent, R. van der Meyden and L. van der Torre, (eds), *Handbook of Deontic Logic and Normative Systems*, Volume 1, College Publications, London, 2013, pp. 499-544.
29. J. Broersen, S. Cranefield, Y. Elrakaiby, D. Gabbay, D. Grossi, E. Lorini, X. Parent, L. van der Torre, L. Tummolini, P. Turrini, and F. Schwarzentruher, “Normative reasoning and consequence”, *Normative Multi-Agent Systems*, Dagstuhl Follow-Ups, 2013, pp. 33-70.
30. J. Broersen, D. Gabbay, A. Herzig, E. Lorini, J.-J. Meyer, X. Parent and L. van der Torre “Deontic logic”. In S. Ossowski (ed), *Agreement Technologies*, 2013, Springer, Dordrecht Heidelberg, pp. 171-180.
31. X. Parent, “Why be afraid of identity?”. In A. Artikis, R. Craven, N. Kesim, B. Sadighi and K. Stathis (eds), *Logic Programs, Norms and Action: Essays in Honor of Marek J. Sergot on the Occasion of His 60th Birthday*, 2012, Springer, LNCS, pp. 295-307.
32. X. Parent, P. Turini, L. van der Torre and S. Colombo Tosatto, “Contrary-to-duties in games”. In A. Artikis, R. Craven, N. Kesim, B. Sadighi and K. Stathis (eds), *Logic Programs, Norms and Action: Essays in Honor of Marek J. Sergot on the Occasion of His 60th Birthday*, 2012, Springer, LNCS, pp. 329-348.
33. X. Parent and P. Livet, “Conditional, revision and argumentation” (in French). In P. Livet (ed.) *Révision des Croyances*, 2002, Paris: Hermès Science Publication, pp. 229-258.

Papers in refereed conferences with formal proceedings

34. A. Ciabattoni, N. Olivetti and X. Parent “Dyadic obligations: proofs and countermodels via hypersequents”. Accepted for presentation at *PRIMA 2022*.
35. X. Parent and C. Benz Müller, “Automated verification of deontic correspondences in Isabelle/HOL—first results”. Forthcoming in: C. Benz Müller and J. Ottens (eds), *Automated Reasoning in Quantified Non-Classical Logics (ARQNL 2022)*, 4th International Workshop (associated with FLoc and IJCAR 2022), 11 August 2022, Haifa, Israel, CEUR-WS.
36. “On some weakenings of transitivity in the logic of norms (extended abstract)”. In O. Arieli, G. Casini and L. Giordano (eds), *NMR 2022: International Workshop on Non-Monotonic Reasoning* (associated with FLoc and KR 2022), 7-8 August 2022, Haifa, Israel, CEUR-WS, vol. 3197, pp. 147-150.
37. A. Ciabattoni, G. Sartor and X. Parent, “A Kelsenian deontic Logic”. In E. Schweighofer (ed.), *Proc. of the 34th International Conference on Legal Knowledge and Information Systems (JURIX)*, Frontiers in Artificial Intelligence and Applications, 2021, IO Press, pp. 141-150.
38. C. Benz Müller, X. Parent and L. van der Torre, “Designing normative theories of ethical reasoning” (extended abstract, plus poster). In *30th International Joint Conference on Artificial Intelligence, IJCAI 2021*, journal paper track.

39. C. Benzmüller, X. Parent and L. van der Torre, “Designing normative theories for ethical and legal reasoning: LogiKEY framework, methodology, and tool support (extended abstract)”. In *17th Conference on Principles of Knowledge Representation and Reasoning (KR 2020)*, Recently Published Research track, 2020.
40. M. Olszewski, X. Parent and L. van der Torre, “I/O logics with a consistency check—the case of permission”. In F. Liu, A. Marra, P. Portner, and F. Van De Putte (eds.), *Deontic Logic and Normative Systems: 15th International Conference (DEON2020/2021, Munich)*, London: College Publications, 2021.
41. C. Benzmüller, A. Farjami and X. Parent, “A dyadic deontic logic in HOL”. In J. Broersen, C. Condoravdi, S. Nair and G. Pigozzi (eds.), *Deontic Logic and Normative Systems — 14th International Conference, DEON 2018*, Utrecht, The Netherlands, 3-6 July, 2018, College Publications, pp. 33-50, 2018.
*** John-Jules Meyer best paper award ***
42. X. Parent and L. van der Torre, “I/O logics with a consistency check”. In J. Broersen, C. Condoravdi, S. Nair, G. Pigozzi (eds.), *Deontic Logic and Normative Systems — 14th International Conference, DEON 2018*, Utrecht, The Netherlands, 3-6 July, 2018, College Publications, pp. 33-50, 2018.
43. C. Benzmüller, X. Parent and L. van der Torre, “A deontic logic reasoning infrastructure”, In R. Miller, D. Nowotka and F. Manea (eds.), *14th Conference on Computability in Europe, CiE 2018*, Kiel, Germany, July 30-August, 2018, Springer, 2018.
44. Z. Baniyasi, M. Cramer, C. Max and X. Parent, “A model for regulating ethical preferences in machine ethics”. In Kurosu Masaaki (ed.), *Human-Computer Interaction. Theories, Methods, and Human Issues*, 2018, Springer International Publishing, p.481-506.
*** Best paper award ***
45. X. Parent and L. van der Torre, “The pragmatic oddity in a norm-based semantics”. In G. Governatori (Ed.), *16th International Conference on Artificial Intelligence & Law (ICAIL-17)*, ACM, 2017.
46. A. Ambrossio, X. Parent and L. van der Torre, “Cumulative aggregation”. In O. Roy, A. Tamminga and M. Willer (eds), *Deontic Logic and Normative Systems*, 13th Int Conference, DEON 2016, College Publications, UK, 2016, p. 1-15.
47. X. Parent and L. van der Torre, “Sing and dance!. Input/output logics without weakening.” In: F. Cariani, D. Grossi, J. Meheus and X. Parent (eds), *Deontic Logic and Normative Systems*, 12th International Conference, DEON 2014, 2014, Springer, LNCS.
48. X. Parent and L. van der Torre, “Aggregative deontic detachment for normative reasoning”. In T. Eiter and C. Baral and G. De Giacomo (eds), *Principles of Knowledge Representation and Reasoning*. Proceedings of the 14th International Conference - KR 2014. AAAI Press, 2014.
49. X. Parent, “Moral particularism and deontic logic”. In G. Sartor and G. Governatori (eds), *Proceedings of the 10th International Conference on Deontic Logic*, Deontic Logic (DEON 2010), Florence, July 2010, LNA, Springer-Verlag, Berlin Heidelberg, 2010, pp. 84-96.
*** Best paper award DEON 2010 ***

50. X. Parent, “On the strong completeness of Åqvist’s dyadic deontic logic G”. In R. van der Meyden and L. van der Torre (eds.), *Deontic Logic in Computer Science*, Proceedings of the 9th International Conference on Deontic Logic (DEON 2008), Luxembourg, July 2008, LNAI 5076, Springer-Verlag, Berlin Heidelberg, 2008, pp. 189-202.
51. F. Vraalsen, M. S. Lund, T. Mahler, X. Parent and K. Stølen. “Specifying legal risk scenarios using the Coras threat modelling language”. In P. Hessmann, V. Issarny and S. Shin (eds), *Trust Management*, Proceedings of the 3rd International Conference on Trust Management, iTrust 2005, Paris, 23-26 May 2005, Springer Verlag, LNCS 3477, 2005, pp. 45-61.
52. A. Jones and X. Parent, “Signalling conventions and conversation”. In F. Dignum (ed), *Advances in Agent Communication: International Workshop on Agent Communication Languages ACL 2003, Melbourne, Australia, July 14, 2003*, Lecture Notes in Artificial Intelligence, Springer Verlag, 2004, pp. 1-17.
53. X. Parent, “Defeasible conditional obligation: some remarks”. In R. Hilpinen and R. Demolombe (eds.) *Proceedings of the 5th International Workshop on Deontic Logic*, 20-22 January 2000, Toulouse, France, pp. 301-309.

Other archival publications

54. C. Benz Müller, F. Ricca and X. Parent, “Report on the Second International Joint Conference on Rules and Reasoning (RuleML+RR 2018)”, *AI Magazine*, 2019, 40(2), pp. 73-74.
55. X. Parent. Review of *Coherent Systems* by Karl Schlechta. In *Logic Journal of the IGPL (Interest Group in Pure and Applied Logics)*, 13, 2005, pp. 353-359.

Under review

56. X. Parent, “On some weakened forms of transitivity in the logic of norms” (full version of item 36). Submitted to *Journal of Symbolic Logic*.
57. M. Olszewski, X. Parent, L. van der Torre, “Permissive and regulative norms in deontic logic”. Submitted to *Journal of Logic and Computation*.