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## Education

- 2025** HDR (Accreditation to Supervise Research, Habilitation) in Computer Science, University of Toulouse, France. Mentor: A. Herzig, CNRS senior researcher (Directeur de Recherches).  
Title: “If, Then, Ought. From Logic to Computation”.
- 2002** Doctorate of Philosophy, University of Aix-Marseille I, France.  
Supervised by Pr. Dr. P. Livet.  
Title: “Non-monotonic logic and modes of argumentation: the case of conditional obligation”. Obtained with the highest distinction. Chairman: Pr. Paul Gochet.  
Best thesis award (see below).
- 1998** DEA (post-graduate degree granted 5 years after the Baccalauréat) in Philosophy, University of Aix-Marseille I, France.  
Title: “Possible-worlds semantics for temporal deontic logic”.
- 1992** Master’s degree in Philosophy, University of Aix-Marseilles I, France.
- 1991** Licence (three-year university degree) in Philosophy, University of Aix-Marseille I, France.

## Professional experience

- 2025-28** FWF (Austrian Science Fund) fellow. Working as PI of the project “Logics for Utilitarian Conditional Oughts (LuCi)”, hosted at the Inst. of Logic and Computation, Vienna University of Technology (TU Wien), within Prof. Dr. A. Ciabattoni’s group.
- 2024-25** Universitätsassistent (senior postdoc), Institute of Logic and Computation, Vienna University of Technology (TU Wien), Austria. Working with Prof. Dr. A. Ciabattoni and Prof. Dr. C. Fuermüller.
- 2022-2023** Lisa Meitner FWF (Austrian Science Fund) fellow. Working as PI of the project “Axiomatizing normative conditional reasoning (ANCoR)”, hosted at the Inst. of Logic and Computation, Vienna University of Technology (TU Wien), within Prof. Dr. A. Ciabattoni’s group.

<b>2021</b>	Universitätsassistent (senior postdoc), Institute of Logic and Computation, Vienna University of Technology (TU Wien), Austria. Working with Prof. Dr. A. Ciabattoni.
<b>2020</b>	Guest researcher at the <i>CGG</i> (Gilles-Gaston Granger) laboratory within the French <i>CNRS</i> (National Centre for Scientific Research). Head: Prof. Dr. Tarantino.
<b>2009-2019</b>	Postdoc researcher, Department of Computer Science, University of Luxembourg. Working with Prof. Dr. L. Van der Torre.
<b>2006-2008</b>	Guest researcher at the <i>CEPERC</i> (Centre for Comparative Epistemology and Ergology) laboratory within the French <i>CNRS</i> (National Centre for Scientific Research). Head: Prof. Dr. P. Livet.
<b>2002-2005</b>	Research associate, Department of Computer Science, King's College, London. Working with Prof. Dr. A.J.I. Jones. Two posts, each one being part of an EU-funded project.
<b>1998-2002</b>	Assistant lecturer in Philosophy, University of Aix-Marseille I, France. Preparation and teaching of: An Introduction to Propositional Logic. Also affiliated with the <i>CEPERC</i> laboratory as a PhD student.
<b>1995-1997</b>	Diplomatic attaché responsible for the development of links between French and Vietnamese regions, French Embassy of Hanoi, Vietnam.

## Area of expertise

- Logic for normative reasoning (conditional deontic logic).

## Awards

- 4 best paper awards: items 41, 50, 53 and 58 in the list of publications.
- Best thesis award 2002 in the Humanities and Social Sciences (price awarded by the Academy of Aix-Marseille).

## Invited talks & tutorials

- Keynote speaker at *DEON'16* (13th International Conference on Deontic Logic and Normative Systems), Bayreuth, Germany, 8-21 Jul 16. Talk title: “Preference-based semantics for dyadic deontic logics in Hansson’s tradition: a survey of results”.
- Invited tutorial “Normative reasoning”, *KI'19* (42nd German conference on Artificial Intelligence), Kassel, 23-26 Sep 19.
- Invited talk “Preference-based semantics for dyadic deontic logics in Hansson’s tradition: a survey of results”, annual meeting of the Swiss Society for Logic and Philosophy of Science (SSLPS), University of Bern, 24-25 Oct 19.
- Invited talk “New developments in deontic conditional logic”, workshop “Automated reasoning with legal entities” (AURELE), University of Luxembourg, 15-22 Jul 22.

## Grants

- 2025-28** “Logics for Utilitarian Conditional Oughts (LuCi)”, Individual research grant (€412,740) awarded by FWF (Austrian Science Fund). Working as Project Investigator (PI). doi:10.55776/PAT1007025
- 2022-24** “Axiomatizing Normative COnditional Reasoning (ANCoR)”, Individual research grant (€177K) awarded by FWF (Austrian Science Fund) under the Lisa Meitner programme. Working as Project Investigator (PI). doi:10.55776/M3240
- 2018** Luxembourg Logic for AI Summit (LuxLogAI). Conference support grant (€24K) awarded by the FNR (Luxembourg National Funds for Scientific Research). Working as co-PI.
- 2009-10** LogIques for Normative Multi-Agent Systems (LINMAS). Individual research grant (50€) awarded by the FNR (and co-funded by the EU under the Marie Curie scheme). Working as PI.
- 2004-05** EU-funded FP6 Integrated project “TrustCoM” (IST-2002-2.3.1.9). Research grant.
- 2001** (1-year) EU-funded FP5 project “ALFEBIITE” (IST-1999-10298). Research grant.
- 1998-00** Non-Monotonic Reasoning for Argumentation (NMRAg). Individual research grant (€60K) from the French Ministry of Higher Education and Scientific Research. Working as PI.

## Teaching

**Deontic logic for normative reasoning** (Spring 2022 to 2025, MSc level, Technical University of Vienna)

- ▷ Part of the master Logic and Computation delivered by the university
- ▷ Same content as Intelligent agents 2 below
- ▷ 2023: part of a joint master in AI with the School of Engineering at Tufts University (USA)

**Python** (Fall 2019, MSc level, University of Luxembourg).

- ▷ Intro course to programming in python
- ▷ Part of the master in maths, track “Industrial mathematics”
- ▷ The course consisted in frontal lectures, practicals and an individual project.  
We covered the basic notions and more specialized topics like cryptography

**Normative reasoning**

- ▷ Tutorial at *KI'19* (42nd German conference on Artificial Intelligence) held in Kassel, 23-26 Sep 19)

**Intelligent agents 2 (deontic logic)** (Falls 2010-18, MSc level, University of Luxembourg)

- ▷ Gave rise to a textbook, item 1 in the list of publications (reviewed in Zentralblatt, Zbl 07101416)
- ▷ Topics covered: formalisms using norms (deontic logic) and topics from literature on normative multi-agent systems and machine ethics (conflicts between obligations, reasoning about norm violation) ; implementation in Isabelle/HOL

**Intelligent agents 1** (Spring 2016, MSc level, University of Luxembourg)

- ▷ Topics covered: knowledge representation, more specifically conditional logics, nonmonotonic logics and belief revision theory

**Deontic logic** (Spring and Fall 2014, postgraduate level, University of Luxembourg, Computer Science)

- ▷ Guest lectures part of the Ph.D. International Program Erasmus Mundus Law, Science and Technology (<http://www.last-jd.eu>)

**Normative multi-agent systems**

- ▷ Tutorial at *EASSS'09* (11th European Agent Systems Summer School) held in Torino, 31 Aug - 4 Sep 09). Postgraduate level.

**Artificial intelligence** (Spring 2009, undergraduate level, University of Luxembourg, Computer Science)

- ▷ The course presented an overview of core AI topics (philosophy of AI; learning; Prolog; planning)

**Propositional Logic** (Spring 1998 - Spring 2002, undergraduate level, University of Aix-Marseille I, Philosophy)

- ▷ Teaching assistant - Prof. in charge: A. Michel, Professor of Philosophy at the University of Aix-Marseille I (I was in charge of the practicals)
- ▷ During this period, I also followed a pedagogical training programme for university teachers

**Logic and language** (Fall 1995, Graduate level, University of Aix-Marseille I)

- ▷ Part of a Master Program in Language Science, University of Aix-Marseille I, France

## Co-supervision of students

Acted as daily supervisor.

Resulted in:

- 8 joint papers: items 15, 17, 18, 49, 50, 53, 55, 13 and 39. in the list of publications
- 3 best paper awards: 41, 50 and 53
- 1 best master award (see below)

*PhD*

**2024-** Blaz Istenic Urh, TU Wien, Logic and Theory group. Topic: deontic explanation. Co-supervised with Prof. Ciabattoni.

**2022-** Dominik Pichler, TU Wien, Logic and Theory group. Topic: 1st-order deontic logic. Co-supervised with Prof. Ciabattoni.

**2016-20** Ali Farjami, University of Luxembourg, Department of Computer Science. PhD title: *Discursive Input/output Logic*. Award date: 1 Oct 2020. Co-supervised with Prof. van der Torre. Resulted in papers 15, 17, 18 and 50 (best paper award).

**2013-17** Diego Ambrossio, University of Luxembourg, Department of Computer Science. PhD title: *Non-Monotonic Logics for Access Control: Delegation Revocation and Distributed Policies*. Award date: May 2017. Now in industry (name of the company: LuxAI). Co-supervised with Prof. van der Torre. Resulted in paper 55.

**2012-16** Xin Sun, University of Luxembourg, Department of Computer Science. PhD title: *Logic and Games of Norms: a Computational Perspective*. Award date: July 2016. Co-supervised with Prof. van der Torre.

## *Master*

- 2022** Dominik Pichler, TU Wien, Logic and Theory group. Master title: *Extensionality for Obligations in Åqvist's System F*. Co-supervised with Prof. Ciabattoni. Viva date: 20 Oct 2022. Resulted in one joined paper 41 (best paper award).
- 2019** Maya Olszewski, University of Luxembourg, Department of Computer Science. Master title: *Exploring Permission in I/O Logic*. Award date: 26 Aug 2019. Co-supervised with Prof. van der Torre. Resulted in papers 49 and 13.  
\*\*(best master award) in the Faculty of Science \*\*
- 2018** Paul Meder, University of Luxembourg, Department of Computer Science. Master title: *Deontic Agency and Moral Luck*. Award date: 3 Sep 2018. Now high-school teacher. Co-supervised with Prof. van der Torre. Resulted in paper 18.
- 2016** Zohreh Baniasadi, University of Luxembourg, Department of Computer Science. Master title: *STIT Logic for Machine Ethics With IDP Specification*. Award date: 12 May 2016. Now in industry (name of the company: Zortify). Co-supervised with Prof. van der Torre. Resulted in paper 53 (best paper award).

## **Defense committees**

On the defense committee of all the students mentioned above except Dominik Pichler. Also appointed as external reader of the PhD defense of Stef Frijters, University of Ghent, Philosophy Department. Title: *Doctors have an Obligation to Care for their Patients: Term-Modal Logics for Ethical Reasoning with Quantified Deontic Statements*. Viva date: 21 Oct 2021.

## **Pedagogical training**

- 2016** Workshop on the supervision of PhD students, leading to a certificate (issued by the University of Luxembourg).
- 2002** Pedagogical training programme for university teachers leading to a certificate called “Monitorat” (issued by the University Aix-Marseille I, France).

## **Co-organisation of conferences and workshops**

Luxembourg Logic for AI Summit (LuxLogAI), 17-26 Sep 2018.

<https://luxlogai.uni.lu>

Number of attendees: 226. Co-organised with L. van der Torre, C. Benzmüller and M. Theobald. LuxLogAI combined three main events:

- 2nd Joint International Conference on Rules and Reasoning (RuleML+RR 2018, 110 participants, with GCAI)
- 4th Global Conference on Artificial Intelligence (GCAI 2018)
- 14th Reasoning Web Summer School (RW 2018, 50 participants)

Gave rise to a conference series called “Declarative AI”

<https://2022.declarativeai.net/>

30th International Conference on Legal Knowledge and Information Systems (JURIX 2017) 13-15 Dec 2017, Luxembourg. Co-organized with G. Casini.

10th de Morgan workshop on deontic logic, 5 & 6 July 10, Firenze  
9th de Morgan workshop on deontic logic, 1-4 Dec 09, Luxembourg  
Workshop on logic/argumentation, 18 Dec 00, University of Aix-Marseille I

## Other academic responsibilities and services

- Co-editor of the *Handbook of Deontic Logic and Normative Systems* (2 volumes).
- Deon Steering Committee 2024-2028
- Editorial board member of *Logics*.
- Co-editor of the textbook series *Texts in Logic and Reasoning*, published by College Publications.
- RuleML+RR 2018 general chair.
- PC co-chair
  - 12th International Conference on Deontic Logic and Normative Systems (DEON 2014), 12-15 July 2014, Ghent, Belgium.
  - Mirel 2017 (Mining and Reasoning with Legal Texts)
- PC membership
  - ICAIL 2025 (International Conference on AI and Law)
  - DEON 2010-2025 (International Conference on Deontic Logic in Computer Science)
  - AAMAS 2024 (senior PC member) and 2020/2019 (regular PC member) (International Conference on Autonomous Agents and Multi-Agent Systems)
  - KR 2024-2025 (International Conference on Knowledge Representation)
  - IJCAR 2024 (International Joint Conference on Automated Reasoning)
  - AiML 2020 and 2024 (Advances in Modal Logic)
  - JELIA 2023-2025 (European Conference on Logics in Artificial Intelligence)
  - NMR 2021-2025 (Non-monotonic Reasoning)
  - CLAR 2021-2023 (International Conference on Logic and Argumentation)
  - VCLA 2021-25 Awards for Bachelor and Master thesis
  - AAAI 2022/2021/2020/2019 (the AAAI Conference on Artificial Intelligence)
  - IJCAI 2018 to 2020 (the International Joint Conference on Artificial Intelligence)
  - ECAI 2018 (the European Conference on Artificial Intelligence)
  - GCAI 2017 to 2019 (the Global Conference on Artificial Intelligence)
  - KI2019 Doctoral consortium (the German Conference on AI)
  - Mirel 2017 to 2029 (Mining and Reasoning with Legal Texts)
  - CLIMA 2013/2014
    - item RDA2@ECAI'12, Right and duties of Autonomous Agents, ECAI'12 workshop
  - Festschrift of Marek Sergot 2012
  - BNAIC 2010/2011 (Benelux Conference on Artificial Intelligence)
  - Agent Communication 2010, in conjunction with AAMAS 2010
  - NorMAS 09 (Normative Multi-Agent Systems 2009)
  - ArgMAS (International Workshop on Argumentation in Multi-Agent Systems) 2004 to 2007
- Research project evaluation for *Agence Nationale de la Recherche (ANR)* and *The*

*Netherlands Organisation for Scientific Research (NWO).*

- Regular reviewer for *Zentralblatt für Mathematik* and *Mathematical Reviews*.
- Reviewer for approx. 17 refereed academic journals, including: *Synthese*; *Journal of philosophical Logic*; *Studia Logica*; *Artificial Intelligence*; and *Artificial Intelligence and Law*. Sub-reviewer for 10 conferences and international workshops (including KR, Concur, Tark and WoLLIC).

## Publication list

### 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 and D. Pichler, “Extensionality vs. intensionality: a perspectival account of conditional ought with definite descriptions”, *Journal of Applied Logics*, 2025, 12(2), pp. 125-158.
10. X. Parent and C. Benzmüller, “Normative conditional reasoning as a fragment of HOL”, *Journal of Applied Non-classical Logics*, 2024, 34, pp. 561-592.
11. X. Parent, “On some weakened forms of transitivity in the logic of conditional obligation”, *Journal of Philosophical Logic*, 2024, 53, pp. 721–760.

12. X. Parent, “Report on the FWF project ‘Axiomatizing conditional normative reasoning’ (ANCoR, M 3240)”, *KI - Künstliche Intelligenz*, 2024.
13. M. Olszewski, X. Parent, L. van der Torre, “Permissive and regulative norms in deontic logic”, *Journal of Logic and Computation*, volume 34, Issue 4, 2024, Pages 728–763.
14. 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.
15. C. Benzmüller, X. Parent, L. van der Torre, A. Farjami, D. Fuenmayor, P. Meder, A. Steen, V. Zahoransky, “LogiKEy workbench: deontic logics, logic combinations 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)
16. 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. 103348.
17. 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.
18. 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.
19. X. Parent and L. van der Torre, “I/O logics for normative reasoning”, *Filosofiska*, 2019, 6(1), pp. 189–208.
20. X. Parent and L. van der Torre, “Detachment in normative systems: examples, inference patterns, properties”, *IfCoLog*, 2017, 4(9), pp. 2295-3039.
21. X. Parent, “Completeness of Åqvist’s systems E and F”, *Review of Symbolic Logic*, 2015, 8 (1), pp. 164-177.
22. 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.
23. D. Gabbay, M. de Boer, X. Parent and M. Slavkovik, “Two-dimensional standard deontic logic”, *Synthese*, 2012, 187(2), pp. 623-660.
24. 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.
25. X. Parent, “A complete axiom set for Hansson’s deontic logic DSDL2”, *Logic Journal of the Interest Group in Pure and Applied Logics*, 2010, 18(3), pp. 422-429.
26. A. Jones and X. Parent, “Normative-informational positions - A modal-logical approach”, *Artificial Intelligence and Law*, 2008, 16(1), pp. 7-23.
27. A. Jones and X. Parent, “A convention-based approach to Agent Communication Languages”, *Group Decision and Negotiation*, 2007, 16, pp. 101-141.
28. X. Parent , “Remedial interchange, contrary-to-duty obligation, and commutation”, *Journal of Applied Non-Classical Logics*, 2003, 13(3/4), pp. 345-375.
29. X. Parent, “Cumulativity, identity and time in deontic logic”, *Fundamenta Informaticae*, 2001, 48, pp. 237-252.

## Chapters in books

30. 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.
31. 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.
32. 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.
33. 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.
34. J. Broersen, S. Cranfield, Y. Elrakaiby, D. Gabbay, D. Grossi, E. Lorini, X. Parent, L. van der Torre, L. Tummolini, P. Turrini, and F. Schwarzentruber, “Normative reasoning and consequence”, *Normative Multi-Agent Systems*, Dagstuhl Follow-Ups, 2013, pp. 33-70.
35. 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.
36. 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.
37. 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.
38. 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**

39. B. Istenič Urhr, A. Ciabattoni and X. Parent, ‘Explanations in Åqvist’s systems ” . In J. Horty and A. Ciabattoni (eds), *Deon 2025*, proceedings , 2025, pp. 79-98.
40. A. Ciabattoni, X. Parent and G. Sartor, “Permission from a Kelsean perspective”. In G. Sileno et al., *Legal Knowledge and Information Systems - JURIX 2023*, IOS Press 2023, pp. 113-118.
41. D. Pichler and X. Parent, “Perspectival obligation and extensionality in an alethic-deontic setting”. In J. Maranhão et al. (ed), *Deontic Logic and Normative Systems*, 16th International Conference, DEON 2023, College Publications, 2023, pp. 57-78, PDF.

#### **\*\*\*John-Jules Meyer Best Paper Award\*\*\***

42. A. Ciabattoni, N. Olivetti, X. Parent, R. Rayamanake and D. Rozplokh, ’’Ana-

- lytic proof theory for Åqvist's system **F**”. In J. Maranhão et al. (ed), *Deontic Logic and Normative Systems*, 16th International Conference, DEON 2023, College Publications, 2023, pp. 79-98.
43. A. Ciabattoni, N. Olivetti and X. Parent “Dyadic obligations: proofs and counter-models via hypersequents”. In R. Aydogan & al. (eds), *Principles and Practice of Multi-Agent Systems (PRIMA 2022)*, Springer, 2022, pp. 54-71.
  44. X. Parent and C. Benzmüller, “Automated verification of deontic correspondences in Isabelle/HOL—first results”. In: C. Benzmüller and J. Ottens (eds), *Automated Reasoning in Quantified Non-Classical Logics ARQNL-IJCAR 2022*, 2022, pp. 92-108.
  45. X. Parent, “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.
  46. A. Ciabattoni, G. Sartor and X. Parent, “A Kelsenian deontic logic”. In E. Schwei-ghofer (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.
  47. C. Benzmüller, 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.
  48. 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.
  49. 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.
  50. 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\*\*\***
51. 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.
  52. 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.
  53. Z. Baniasadi, 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\*\*\***

54. 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.
55. 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.
56. 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.
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