

# Curriculum Vitae of Alberto Momigliano

## 1 Education

- Ph.D. in Pure and Applied Logic, Carnegie Mellon University. “Elimination of Negation in a Logical Framework”. Adviser: Frank Pfenning, thesis committee: Dale Miller, Dana Scott, August 2000.
- M.S. in Logic and Computation, Carnegie Mellon University. “Some Remarks on Uniform Proofs and Constructive Negation”. Advisers: Prof. Wilfried Sieg and Prof. Frank Pfenning.
- M.Sc. in Computation, Oxford University. “Prolog and Negation”, adviser: C.A.R. Hoare.
- Laurea in Philosophy, University of Milano, honor thesis: ”Implication and Deducibility in Formal Systems”. Advisers: Prof. C. Mangione (logic), Prof. A. Bonomi (philosophy of language).

## 2 Current Position

Assistant professor Dipartimento di Scienze dell’Informazione, Università di Milano.

## 3 Current and recent projects

- PRIN 2012: “Metodi logici per il trattamento dell’informazione”
- HYBRID ([hybrid.dsi.unimi.it](http://hybrid.dsi.unimi.it)): a package for higher-order syntax in Isabelle and Coq (Co-PI; 2007–ad oggi).
- COOML ([cooml.dsi.unimi.it](http://cooml.dsi.unimi.it)): A Constructive Object Oriented Modelling Language (Co-PI; 2006–ad oggi).
- MOBIUS ([mobius.inria.fr](http://mobius.inria.fr)): Mobility, Ubiquity and Security. Enabling proof-carrying code for Java on mobile devices. Mobius is a European Integrated Project developing novel technologies for trustworthy global computing, using proof-carrying code to give users independent guarantees of the safety and security of Java applications for their mobile phones and PDAs (Research fellow; 2005-2009).
- Potenziamento e Applicazioni della Programmazione Logica Disgiuntiva. PRIN, (membro dell’unità della Università degli Studi di Messina; 2006–2008).
- MRG ([groups.inf.ed.ac.uk/mrg](http://groups.inf.ed.ac.uk/mrg)): The Mobile Resource Guarantees project has developed the infrastructure needed to endow mobile code with independently verifiable certificates describing its resource behaviour (space, time, etc.). Funded under the Global Computing pro-active initiative of the Future and Emerging Technologies part of the Information Society Technologies programme of the European Commission’s Fifth Framework Programme (Research fellow; 2002-2005).
- TWELF (<http://twelf.plparty.org/>): a research project concerned with the design, implementation, and application of logical frameworks funded by the NSG and DARPA under grants Meta-Logical Frameworks, Efficient Logical Frameworks (PI: Frank Pfenning) (Ph.D student; 1994–2000).

## 4 Previous Jobs

- Research Fellow, LFCS, University of Edinburgh, UK, and DSI, University of Milano (IT), July 2003 – December 2007.
- Research Associate, Department of Mathematics and Computer Science, University of Leicester (UK), July 2000–July 2003.
- Research Programmer at CEFRIEL/Polytechnic of Milano, Italy 1992.
- Research Programmer at Honeywell Bull, Expert Systems Group, Milano, Italy 1989-1991.

## 5 Teaching Experience

- *Intro to Logic*. Instructor, 2018.
- *Formal Methods*. Instructor. 2014-2015
- *Functional Programming*. Instructor. 2011-2019.
- *Informatics 101*. Instructor. Scienze Biologiche 2010-2011, 2011-2012
- PhD course on Validation. 2015.
- PhD course on Linear Logic. April 2011.
- PhD course on Proof Search. March 2010.
- Teaching Assistant for Prof. B. Harper in Principles of Programming Languages, Carnegie Mellon University, Spring 2000
- Instructor for “Introduction to Logic”, Carnegie Mellon University, 1996-99.

## 6 Seminars and Invited Talks

- “An overview of PBT for the working semanticist”. King’s College London and University of Sussex, June 2018.
- “Property-Based Testing PL Artifacts: An experience report”. CLA’17. Goteborg.
- “Benchmarks for mechanized meta-theory: A very personal and partial view”. Dagstuhl seminar on Universality of proofs, Oct 2016.
- Toward a Theory of Contexts of Assumptions in Logical Frameworks. Theory and Application of Formal Proof , Laboratoire d’Informatique de l’Ecole Polytechnique, Novembre 2013. Slides (pdf).
- “A HOAS Encoding of Howe’s Method”. Department of Theoretical Computer Science, IT University of Copenhagen, 3/2012, École Polytechnique, Parigi, 7/2012.
- “Mechanized metatheory model-checking”. Department of Theoretical Computer Science, IT University of Copenhagen, 8/2007.
- “A Practical Approach to Co-induction in Twelf”. Comète-Parsifal Seminar, École Polytechnique, Paris, 6/2006.
- “A Program Logic for Resources and its Application to Optimisation Validation”. Queen Mary, University of London, 12/2005.

- “Automatic Certification of Resource Consumption”. Comète-Parsifal Seminar, École Polytechnique, Paris, 5/2005.
- “Induction and Co-Induction in Sequent Calculus”. Heriot-Watt University, Edinburgh, 5/2003.
- “A Hybrid Logical Framework”. INRIA Futurs, Orsay Cedex, 3/2003.
- “Simple Compiler Verification in a Hybrid Logical Framework”. University of Nottingham Theory Seminar, 2/2002.
- “A Definitional Approach to Higher-Order Abstract Syntax”. Yale University, Carnegie Mellon University & Penn State University, 5/2002.
- “A Fresh Look to Uniform Proof Search”. Dagstuhl Seminar on *Semantics Foundations of Proof-search*, 4/2001.
- “Think Positive! Or Elimination of Negation in a Logical Framework”. Joint Theory Seminar, Queen Mary, University of London, 11/2000.

## 7 Professional Services

- Conferences:
  - **PC member:**
    - \* *LSFA 2019: 14th International Workshop on Logical and Semantic Frameworks, with Applications.*
    - \* *CCP 2018; The 7th International Conference on Certified Programs and Proofs.*
    - \* *LFMTP 2015: Logical Frameworks and Metalanguages. Theory and Applications*, Berlin, 2015.
    - \* *Interactive Theorem Proving ITP 2012*, Princeton, New Jersey 13-16 August 2012.
    - \* *LFMTP 2009: Logical Frameworks and Metalanguages. Theory and Applications*, in association with CADE-22, McGill University, Montreal, Canada, 2009.
    - \* *LFMTP 2008: Logical Frameworks and Metalanguages. Theory and Applications*, in association with LICS, Pittsburgh, June 2008.
    - \* *ICTCS 2007: Italian Conference on Theoretical Computer Science*, Rome, September 2007.
    - \* *LFMTP 2006: Logical Frameworks and Metalanguages. Theory and Applications*, in association with FLOC, Seattle, July 2006.
    - \* *MERLIN 2005: MEchanized Reasoning about Languages with variable bInding and Names*, in association with ICFP 2005, Tallin, Estonia, August 2005.
    - \* *PPDP 2003: 5th International Conference on Principles and Practises of Declarative Programming Languages*, Uppsala, Sweden, August 2003.
  - **Organizer:**
    - \* *Convegno Italiano di Logica Computazionale.* 2016, Milano.
    - \* *LFMTP 2006: Logical Frameworks and Metalanguages. Theory and Applications.*
    - \* *MERλIN 2005: MEchanized Reasoning about Languages with variable bInding and Names.*
    - \* Tutorial Chair: *European Joint Conferences on Theory and Practice of Software (ETAPS 2005)*, April 2005 Edinburgh, Scotland.
    - \* *MERλIN 2003*, in association with *PPDP 2003*, Uppsala, Sweden, August 2003;
    - \* *MERλIN 2001*, in association con *IJCAR 2001, International Joint Conference on Automated Reasoning*, Siena, Italy, June 2001;
    - \* *Post-Conference Workshop on Proof-Theoretical Extensions of Logic Programming*, Santa Margherita Ligure, June 1994, in association with *1994 International Conference on Logic Programming (ICLP'94)*.

- Refereeing:
  - Journals: Theoretical Computer Science, Journal of Automated Reasoning, Journal of Higher Order and Symbolic Computation, Journal of Functional Programming, Annals of Pure and Applied Logic, Information Processing Letter, Data & Knowledge Engineering Journal.
  - Conferences: POPL, LICS, ICFP, CSL, ICALP, APLAS, ESOP, PPDP, ICLP, LOPSTR, TABLEAUX, ...

## 8 Awards/Honors

- Winner of the CNR (Italian Council for Research) fellowship in Mathematics, 1993.
- “Best Paper Award”, 1<sup>st</sup> International Conference on Practical Applications of Prolog, London, 1992.
- Invited panelist at the panel about “Prolog in the real world” that concluded the 20<sup>th</sup> *Joint International Conference on Logic Programming (ICLP’92)*, Washington, 11/1992.

## 9 Publications

### 9.1 International Journals

12. Alberto Momigliano, Brigitte Pientka and David Thibodeau. A Case Study in Programming Coinductive Proofs in Beluga: Howe’s Method. *Math. Struct. Comp. Science*, Oct 2018 – DOI: <https://doi.org/10.1017/S0960129518000415>.
11. Mauro Ferrari, Camillo Fiorentini and Alberto Momigliano. From Constructivism to Logic Programming: an Homage to Mario Ornaghi. *Fundamenta Informaticae*, 161 (2018) 1–7.
10. Amy Felty, Alberto Momigliano and Brigitte Pientka. Benchmarks for Reasoning with with Syntax Trees Containing Binders and Contexts of Assumptions. *Mathematical Structures in Computer Science*, Volume 28, Special Issue 9 (Logical Frameworks and Meta-Languages 2015) October 2018 , pp. 1507-154.
9. James Cheney and Alberto Momigliano.  $\alpha$ Check: a mechanized metatheory model-checker. *Theory and Practice of Logic Programming*, Volume 17, Issue 3 May 2017 , pp. 311-352. DOI: <https://doi.org/10.1017/S1471068417000035>.
8. Alessandro Avellone, Camillo Fiorentini & Alberto Momigliano. A Semantical Analysis of Focusing and Contraction in Intuitionistic Logic. *Fundamenta Informaticæ*, 140:3-4(2015), pp. 247-262, DOI: 10.3233/FI-2015-1253.
7. Amy Felty, Alberto Momigliano & Brigitte Pientka. The Next 700 Challenge Problems for Reasoning with Higher-Order Abstract Syntax Representations. Part 2: A Survey. *J. Automated Reasoning*, December 2015, Volume 55, Issue 4, pp 307–372. DOI: <http://link.springer.com/article/10.1007/s10817-015-9327-3>.
6. Alwen Tiu & Alberto Momigliano. Cut Elimination for a Logic with Induction and Co-induction. *Journal of Applied Logic*, 10(4): 330-367, DOI: <http://dx.doi.org/10.1016/j.jal.2012.07.007>.
5. Amy Felty & Alberto Momigliano. Hybrid: A Definitional Two-Level Approach to Reasoning with Higher-Order Abstract Syntax. *J. Autom. Reasoning* 48(1): 43-105 (2012)
4. D. Aspinall, L. Beringer, H.W. Loidl, M. Hoffman & A. Momigliano. A Program Logic for Resources, *Theoretical Computer Science*, 389(3):411– 445, Dec 2007.
3. Alberto Momigliano & Frank Pfenning. Higher-Order Pattern Complement and the Strict Lambda-Calculus. *ACM Transactions on Computational Logic*, 493 - 529, Vol. 4 Issue 4, Oct. 2003.

2. Alberto Momigliano & Mario Ornaghi. Regular Search Spaces and Constructive Negation. *Journal of Logic and Computation*, 7(3):367–403, 1997.
1. Massimo Paltrinieri, Alberto Momigliano & Franco Torquati. Aircraft Routing as Constraints Satisfaction. *International Journal of Expert Systems: Research & Applications*, Volume 8, No. 4:349–373, 1995.

## 9.2 Refereed Electronic Journals

4. Alberto Momigliano, Alan Martin & Amy Felty. Two-Level Hybrid: A System for Reasoning Using Higher-Order Abstract Syntax. *Electr. Notes Theor. Comput. Sci. (ENTCS)* 196:85-93 (2008). Proceedings of the Second International Workshop on Logical Frameworks and Meta-Languages: Theory and Practice (LFMTP 2007). <http://dx.doi.org/10.1016/j.entcs.2007.09.019>
3. Alberto Momigliano, David Aspinall & Lennart Beringer. Optimisation Validation. *Electr. Notes Theor. Comput. Sci. (ENTCS)* 176(3):37-59 (2007). Proceedings of the 5th International Workshop on Compiler Optimization meets Compiler Verification (COCV 2006). <http://dx.doi.org/10.1016/j.entcs.2006.06.017>
2. Mario Ornaghi, Marco Benini, Mauro Ferrari, Camillo Fiorentini & Alberto Momigliano. A Constructive Modeling Language for Object Oriented Information Systems. *Electr. Notes Theor. Comput. Sci. (ENTCS)* 153(1):55-75 (2006). Proceedings of the Workshop on the Constructive Logic for Automated Software Engineering (CLASE 2005). <http://dx.doi.org/10.1016/j.entcs.2005.08.006>
1. Alberto Momigliano, Simon Ambler & Roy Crole. A Hybrid Encoding of Howe’s Method for Establishing Congruence of Bisimilarity. *Electr. Notes Theor. Comput. Sci. (ENTCS)* 70(2) (2002). Proceedings of the International Workshop on Logical Frameworks and Meta-Languages, (LFM’02). <http://www.elsevier.com/gej-ng/31/29/23/125/50/show/Products/notes/index.htm#006>

## 9.3 Refereed Electronic Libraries

4. Amy Felty, Alberto Momigliano & Brigitte Pientka. An Open Challenge Problem Repository for Systems Supporting Binders. *LFMTP 2015*: 18-32, DOI: 10.4204/EPTCS.185.2.
3. Alberto Momigliano. A supposedly fun thing I may have to do again: a HOAS encoding of Howe’s method. In *Proceedings of the seventh international workshop on Logical frameworks and meta-languages, theory and practice (LFMTP ’12)*. ACM, New York, NY, USA, 33-42. <http://doi.acm.org/10.1145/2364406.2364411>
2. A. Momigliano & Jeff Polakow. A Formalisation of an Ordered Logical Framework in Hybrid with Applications to Continuation Machines. *Proceedings of Eighth ACM SIGPLAN International Conference on Functional Programming, Workshop on Mechanized reasoning about languages with variable binding, (MERLIN 2003)*. ACM, New York, NY, USA, 1-9, <http://doi.acm.org/10.1145/976581>.
1. Simon Ambler, Roy Crole & A. Momigliano. A Definitional Approach to Primitive Recursion over Higher Order Abstract Syntax. *Proceedings of Eighth ACM SIGPLAN International Conference on Functional Programming, Workshop on Mechanized reasoning about languages with variable binding, (MERLIN 2003)*. ACM, New York, NY, USA, 1-11. <http://doi.acm.org/10.1145/976572>.

## 9.4 International Conferences

28. Roberto Blanco, Dale Miller and Alberto Momigliano. Property-Based Testing via Proof Reconstruction. *PPDP2019*.
27. Guglielmo Fachini and Alberto Momigliano. Validating the Meta-Theory of Programming Languages. *Software Engineering and Formal Methods 15th International Conference, SEFM 2017*, Trento, Italy, September 4–8, 2017, Proceedings. Lecture Notes in Computer Science book series 10469. Pages 367-374.
26. James Cheney, Alberto Momigliano, Matteo Pessina: Advances in Property-Based Testing for  $\alpha$ Prolog. *Tests and Proofs 10th International Conference, TAP 2016*, Held as Part of STAF 2016, Vienna, Austria, July 5-7, 2016, Proceedings, Lecture Notes in Computer Science, 9762, 2016: 37-56
25. Camillo Fiorentini, Alberto Momigliano, Mario Ornaghi & Iman Poernomo: A Constructive Approach to Testing Model Transformations. In: *Theory and Practice of Model Transformations, Third International Conference, ICMT 2010*, Malaga, Spain, June 28-July 2, 2010. Proceedings. Lecture Notes in Computer Science 6142 Springer 2010.
24. Amy Felty and A. Momigliano. Reasoning with Hypothetical Judgments and Open Terms in Hybrid. In: Francisco J. Lopez-Fraguas, & António Porto (Eds.): *Proceedings of the 11th International ACM SIGPLAN Conference on Principles and Practice of Declarative Programming (PPDP 2009)*, ACM Press, Sept. 2009.
23. Camillo Fiorentini, Mario Ornaghi, A. Momigliano & Francesco Pagano. Applying ASP to UML Model Validation. In: Fangzhen Lin and Torsten Schaub (Eds.): *Tenth International Conference on Logic Programming and Nonmonotonic Reasoning*, Lecture Notes in Computer Science, Vol. 5753, Springer-Verlag, Sept. 2009
22. Camillo Fiorentini, Mario Ornaghi & A. Momigliano. Towards a type discipline for Answer Set Programming. In: Stefano Berardi, Ferruccio Damiani, Ugo de' Liguoro (Eds.): *Types for Proofs and Programs; TYPES 2008 Post-Proceedings*, Series: LNCS, Vol 5497, 2009.
21. Mauro Ferrari, Camillo Fiorentini, Mario Ornaghi & A. Momigliano. Snapshot generation in a constructive object-oriented modeling language. In: Andy King (Ed.): *Proceedings of LOPSTR 2007, Revised Selected Papers*. Series: Lecture Notes in Computer Science, Vol. 4915, Springer-Verlag, January 2008.
20. James Cheney & A. Momigliano. Mechanized MetaTheory Model Checking. In: Michael Leuschel & Andreas Podelski (Eds.): *Proceedings of the 9th International ACM SIGPLAN Conference on Principles and Practice of Declarative Programming (PPDP 2007)*, ACM Press, July 2007.
19. Donald Sannella, Martin Hofmann, David Aspinall, Stephen Gilmore, Ian Stark, Lennart Beringer, Hans-Wolfgang Loidl, Kenneth MacKenzie, Alberto Momigliano, Olha Shkaravska: Mobile Resource Guarantees (project evaluation paper). In: Marko C. J. D. van Eekelen (Ed.): *Revised Selected Papers from the Sixth Symposium on Trends in Functional Programming, TFP 2005*, Tallinn, Estonia, 23-24 September 2005. Trends in Functional Programming 6 Intellect 2007, ISBN 978-1-84150-176-5.
18. Kung-Kiu Lau, Alberto Momigliano & Mario Ornaghi. Constructive Specifications for Compositional Units. In: Etalle, Sandro (Ed.): *Proceedings of the Logic Based Program Synthesis and Transformation 14th International Symposium LOPSTR 2004*, Verona Italia, August 26-28, 2004, Revised Selected Papers. Series: Lecture Notes in Computer Science, Vol. 3618, Springer-Verlag, Feb. 2005.
17. L. Beringer, M. Hofmann, A. Momigliano & O. Shkaravska. Automatic Certification of Heap Consumption. In: Franz Baader & Andrei Voronkov (Eds.): *Proceedings of the 11th International Conference on Logic for Programming, Artificial Intelligence and Reasoning (LPAR2004)*, Montevideo, Uruguay, March 14-18th, 2005. Volume 3452 of Lecture Notes in Artificial Intelligence, Springer-Verlag.

16. D. Aspinall, L. Beringer, M. Hofmann, H-W. Loidl & A. Momigliano. A Program Logic for Resource Verification. In: Konrad Slind, Annette Bunker, & Ganesh C.Gopalakrishnan (Eds.): *Proceedings of the 17th International Conference on Theorem Proving in Higher Order Logics (TPHOLs2004)*, Park City, Utah, September 14-17, 2004. pp.34–49, Volume 3223 of Lecture Notes in Computer Science, Springer-Verlag.
15. A. Momigliano & A. Tiu. Induction and Co-induction in Sequent Calculus. In: Berardi, Stefano; Coppo, Mario; Damiani, Ferruccio (Eds.): *Types for Proofs and Programs International Workshop, TYPES 2003*, Torino, Italy, April 30 - May 4, 2003, Revised Selected Papers Series: pp. 293 –308, Lecture Notes in Computer Science, Vol. 3085, 2004.
14. Simon Ambler, Roy Crole & A. Momigliano. A Combinator and Presheaf Topos Model for Primitive Recursion over Higher Order Abstract Syntax. In: Matthias Baaz, Johann Makowski & Andrei Voronkov: *Colloquium Logicum (Proceedings of the Kurt Godel Society) vol. VIII*, pp. 83 – 91, Computer Science Logic/8th Kurt Godel Colloquium, Vienna, August, 2003.
13. A. Momigliano & Simon Ambler. Multi-Level Meta-Reasoning with Higher Order Abstract Syntax. In: Gordon, Andrew D. (Ed.): *Foundations of Software Science and Computational Structures 6th International Conference, FOSSACS 2003*, Warsaw, Poland, April 7-11, 2003, pp. 375 –391, Lecture Notes in Computer Science, Vol. 2620, 2003.
12. Simon Ambler, Roy Crole & Alberto Momigliano. Combining Higher Order Abstract Syntax with Tactical Theorem Proving and (Co)Induction. In: V. A. Carreño editor, *15<sup>th</sup> International Conference on Theorem Proving in Higher Order Logics (TPHOLs02)*, Hampton, VA, 1-3 August 2002, pages 327–343, Springer Verlag LNCS 2342, Berlin, 2002.
11. Alberto Momigliano, Simon Ambler & Roy Crole. A Comparison of Formalizations of the Meta-Theory of a Language with Variable Binding in Isabelle. In: R.J. Boulton & P. Jackson (Eds.), *14<sup>th</sup> International Conference on Theorem Proving in Higher Order Logics (TPHOLs01)*, Supplemental Proceedings, 3-6 September 2001, Edinburgh, Scotland, pages 267–282, 2001.
10. Alberto Momigliano. Elimination of Negation in a Logical Framework. In: P. Clote & H. Schwichtenberg (Eds.), *CSL 2000, 14<sup>th</sup> Annual Conference of the European Association for Computer Science Logic (EACSL)*, pages 411–426, Springer Verlag LNCS 1852, Berlin, 2000.
9. Alberto Momigliano & Frank Pfenning. The Relative Complement Problem for Higher-Order Patterns. In: D. De Schreye editor, *Logic Programming, Proceedings of the 1999 International Conference on Logic Programming*, Las Cruces, NM, pages 380–394, The MIT Press, Cambridge, MT, December 1999.
8. Alberto Momigliano & Frank Pfenning. The Relative Complement Problem for Higher-Order Patterns. In: M.C. Meo & M. Vilares Ferro (Eds.), *AGP'99: Proceedings of the Joint Conference on Declarative Programming*, L'Aquila, September 6-9, 1999, pages 497–512, Gruppo Tipografico Editoriale, 1999.
7. Alberto Momigliano & Mario Ornaghi. Towards a Logic for Reasoning about Logic Programs Transformation. In: Norbert E. Fuchs editor, *Logic Programming Synthesis and Transformation, 7<sup>th</sup> International Workshop (LOPSTR'97)*, Leuven, Belgium, July 1997, pages 226–244, Springer Verlag LNCS 1463, Berlin, 1998.
6. Alberto Momigliano & Mario Ornaghi. An Introduction to Regular Search Spaces. In: M. Sessa & M. Alpuente Frasnado (Eds.), *GULP-PRODE'95: Proceedings of the Joint Conference on Declarative Programming*, Marina di Vietri sul Mare, September 11-14, pages 234–249, Università degli Studi di Salerno, 1995.
5. Alberto Momigliano & Mario Ornaghi. Regular Search Spaces as a Foundation of Logic Programming. In: Roy Dyckhoff editor, *Extensions of Logic Programming, Proceedings of the 4th International Workshop (ELP'93)*, St. Andrews, U.K., March 1993, pages 222–254, Springer Verlag LNAI 798, Berlin, 1994

4. Alberto Momigliano. Minimal Negation and Hereditary Harrop Formulae. In: Anil Nerode & Mikhail Taitslin, (Eds.), *Logical Foundations of Computer Science (Tver '92): Proceedings of Second International Symposium*, pages 326–335, Springer-Verlag LNCS 620, Berlin, 1992.
3. Massimo Paltrinieri, Alberto Momigliano & Franco Torquati. Scheduling of an Aircraft Fleet. In: M. Drummond, M. Fox, A. Tate & M. Zweben (Eds.), *Practical Approaches to Scheduling and Planning: Papers from the 1992 Spring Symposium*, March 25-27, 1992, Menlo Park, California, pages 25–29, AAAI Press, 1992.
2. Alberto Momigliano, Massimo Paltrinieri & Franco Torquati. A Scheduling System for an Aircraft Fleet. In: A. Roth editor *Practical Application of Prolog, Proceedings of the International Conference & Exhibition*, London, April 1-3, 1992, 13 pages.
1. Franco Torquati, Massimo Paltrinieri & Alberto Momigliano. A Constraint Satisfaction Approach to Operative Management of Aircraft Routing. *Proceedings of the Third International Conference on Industrial & Engineering Applications of Artificial Intelligence & Expert Systems (IEA/AIE 90)*, July 15-18, 1990, Charleston, SC, USA, Volume 2, pages 1140–1146, ACM Press, 1990.

## 9.5 Refereed National Conferences

8. Giorgio Marabelli and Alberto Momigliano. Formalizing the meta-theory of program equivalences in Coq. *ICTCS'19*.
7. Alberto Momigliano and Mario Ornaghi. The Blame Game for Property-based Testing. *CEUR Workshop Proceedings Volume 2396, 2019, Pages 4-13 34th Italian Conference on Computational Logic, CILC 2019; Trieste; Italy; 19 June 2019 through 21 June 2019*.
6. Francesco Komauli and Alberto Momigliano. Property-testing of abstract machines: an experience report. *CILC 2018*, 22–39, Bolzano, 20-22 Sept. 2018. DOI: <http://ceur-ws.org/Vol-2214/>.
5. Mario Ornaghi, Camillo Fiorentini and Alberto Momigliano. LOGI: A didactic tool for a beginners' course in logic (system description). In *ICTCS-CILC 2017*.
4. Alessandro Avellone, Camillo Fiorentini, Alberto Momigliano: Focusing on Contraction. *CILC 2013*: 65-81
3. C. Fiorentini, A Momigliano & M. Ornaghi. Towards introducing types in DLV\*. In Formisano A. (Ed.) *23-esimo Convegno Italiano di Logica Computazionale 10-12 Luglio 2008 (CILC 2008)*. Perugia, Luglio 2008. [http://www.dmi.unipg.it/CILC08/21\\_OrnaghiFiorentiniMomigliano.pdf](http://www.dmi.unipg.it/CILC08/21_OrnaghiFiorentiniMomigliano.pdf)
2. M. Ferrari, C. Fiorentini, A. Momigliano & A. Ornaghi. Towards Proof-theoretic Model Generation. In Provetti A. (Ed.) *Conferenza Italiana in Logica Computazionale (CILC 2007)*, Messina, Luglio, 2007. <http://ale.usr.dsi.unimi.it/cilc2007/>
1. Alberto Momigliano. Uniform Proofs Systems with Constructive Negation. In S. Costantini editor, *Settimo Convegno sulla Programmazione Logica (GULP'92)*, Tremezzo, 17-19 Giugno 1992, pages 3–17, CittàStudi Editore, Milano, 1992.

## 9.6 Refereed International Workshops

3. Mario Ornaghi, Camillo Fiorentini and Alberto Momigliano. Snapshots Gneration via Constructive Logic. In *MoVeLog'05, Mobile Code Safety and Program Verification Using Computational Logic Tools*. An *ICLP* Workshop, Sitges, Spain, Oct. 5, 2005
2. L. Beringer, M. Hofmann, A. Momigliano & O. Shkaravska. Towards Certification Generation for Linear Heap Consumption. In: Didier Galmiche & David Pym (Eds.): *Proceedings of the ICALP Workshop "Logics for Resources, Processes, and Programs" (LRPP 2004)*, July 13, 2004.



1. Alberto Momigliano & Mario Ornaghi. A Proof-Theoretic Reconstruction of Logic Programming. In: F. Pfenning, J. Harland & D. Pym (Eds.), *Proceeding of the Post-Conference Workshop on Proofs and Types*, in association with *1992 Joint International Conference and Symposium on Logic Programming*, November 1992, Washington DC, 1992.

## 9.7 Editions

8. Camillo Fiorentini, Alberto Momigliano & Alberto Pettorossi. *Special Issue on the 31th Italian Conference on Computational Logic (CILC 2016)*. Fundamenta Informaticae, vol. 161 (2018),
7. Camillo Fiorentini & Alberto Momigliano: Proceedings of the 31st Italian Conference on Computational Logic, Milano, Italy, June 20-22, 2016. <http://dblp.uni-trier.de/db/series/ceurws/index.html>
6. Alberto Momigliano & Brigitte Pientka & Randy Pollack(Eds.). *Proceedings of LFMTP 2013: Logical Frameworks and Metalanguages. Theory and Applications*. ACM Press & ACM Digital Library, <http://dl.acm.org/citation.cfm?id=2503887>
5. Alberto Momigliano & Brigitte Pientka (Eds.). *Proceedings of LFMTP 2006: Logical Frameworks and Metalanguages. Theory and Applications*. Electr. Notes Theor. Comput. Sci. (ENTCS) 174(5):1-2 (2007). <http://dx.doi.org/10.1016/j.entcs.2007.01.015>
4. Alberto Momigliano & Randy Pollack (Eds.). *Proceedings of MERLIN 2005: MEchanized Reasoning about Languages with variable bINDing*, ACM Press & ACM Digital Library, September 2005, ISBN:1-59593-072-8. <http://portalparts.acm.org/1090000/1088454/fm/frontmatter.pdf>
3. Marino Miculan, Furio Honsell & Alberto Momigliano (Eds.). *Proceedings of MERLIN 2003: MEchanized Reasoning about Languages with variable bINDing*, ACM Press & ACM Digital Library, 2003, ISBN:1-58113-800-8. <http://portal.acm.org/citation.cfm?id=976571&jmp=cit&coll=GUIDE&dl=GUIDE&CFID=95568950&CFTOKEN=74957935#CIT>.
2. Simon Ambler, Roy Crole & Alberto Momigliano (Eds.). *Proceedings of MERLIN 2001: MEchanized Reasoning about Languages with variable bINDing*, Electronic Notes in Theoretical Computer Science, (ENTCS), Volume 58, Issue 1, November 2001. <http://www.ingentaconnect.com/content/els/15710661/2004/00000058/00000001;jsessionid=541ctpefpodr.alice>
1. Alberto Momigliano & Mario Ornaghi (Eds.). *Proceedings of the Post-Conference Workshop on Proof-Theoretical Extensions of Logic Programming*, held in connection with *1994 International Conference on Logic Programming (ICLP'94)*, Santa Margherita Ligure, Giugno 1994.

## 9.8 Invited Papers

2. Alberto Momigliano & Mario Ornaghi. Proof-theoretic and Higher-order Extensions of Logic Programming. In: Agostino Dovier and Enrico Pontelli (Eds.): *A 25-Year Perspective on Logic Programming: Achievements of the Italian Association for Logic Programming, GULP*. Lecture Notes in Computer Science 6125 Springer 2010.
1. Alberto Momigliano & Lennart Beringer. Certification of Resource Consumption: from Types to Logic (Programming). *The Association for Logic Programming Newsletter*, Vol. 18, No. 2, May 2005.

## 9.9 PhD Thesis

- A. Momigliano. Elimination of Negation in a Logical Framework. August 2000, available as *Technical Report CMU-CS-00-175*, School of Computer Science, Carnegie Mellon University, 160 pages.