

Curriculum Vitæ di Alberto Momigliano

Posizione attuale ed impieghi precedenti

- *Professore associato INF/01*, presso il Dipartimento di Scienze dell'Informazione, Università di Milano.
- *Ricercatore INF/01*, presso il Dipartimento di Scienze dell'Informazione, Università di Milano, 2011 – 2021.
- Collaboratore alla ricerca presso il Dipartimento di Scienze dell'Informazione nell'ambito del progetto coordinato dal Prof. Mario Ornaghi, Novembre 2003 – Novembre 2007.
- *Part-time Research Fellow* presso il Laboratory for Foundations of Computer Science, School of Informatics, The University of Edinburgh. Dicembre 2003 – Dicembre 2007, parzialmente finanziato dai progetti europei MRG (groups.inf.ed.ac.uk/mrg) e Mobius (mobius.inria.fr).
- *Research Fellow* presso il Laboratory for Foundations of Computer Science, School of Informatics, The University of Edinburgh. Luglio 2003 – Novembre 2003, finanziato da MRG.
- *Research Fellow* presso il Department of Mathematics and Computer Science, University of Leicester (UK), Luglio 2000–Luglio 2003, finanziata dal grant EPSRC “Mechanized Operational Semantics”.
- Ricercatore al CEFRIEL, Milano: disegno e sviluppo di un sistema di *semantic-based information retrieval*, coordinato dal Prof. Augusto Celentano, Politecnico di Milano, 1990.
- Programmatore di ricerca nel gruppo di Sistemi Esperti, Honeywell Bull, Pregnana Milanese: disegno e sviluppo del sistema di schedulazione di aeromobili ‘OMAR’ (Operative Management of Aircraft Routing) per Alitalia, 1988-1990.

Istruzione

- Ph.D. in Pure and Applied Logic, Carnegie Mellon University. Titolo della tesi: “Elimination of Negation in a Logical Framework”. Supervisore Frank Pfenning, membri del comitato di tesi: Dale Miller, Dana Scott.
- M.S. in Logic and Computation, Carnegie Mellon University. Titolo della tesi: “Some Remarks on Uniform Proofs and Constructive Negation”. Supervisore Wilfried Sieg.
- M.Sc. in Computation, Oxford University. Titolo della tesi: “Prolog and Negation”, supervisore C.A.R. Hoare.
- Laurea in Filosofia, Università degli Studi di Milano con votazione 110/110 e lode. Titolo della tesi: “Implicazione e Deducibilità nei Sistemi Formali”. Relatore Corrado Mangione, correlatore Andrea Bonomi.

Partecipazione a progetti di ricerca

- PI
 - “Estensioni del Property-based Testing di e con linguaggi di programmazione dichiarativa”. Progetto di ricerca GNCS 2020.
 - “Certificazione di verificatori automatici del software basati su clausole di Horn con vincoli”. Progetto di ricerca GNCS 2017.

- Member:
 - “METALLIC #2: METodi di prova per il ragionamento Automatico per Logiche non-classiche”. Progetto di ricerca GNCS 2019.
 - “Metodi di prova orientati al ragionamento automatico per logiche non-classiche”. Progetto di ricerca GNCS 2018.
 - PRIN 2012: “Metodi logici per il trattamento dell’informazione”. Unità di Milano.
 - MOBIUS (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).
 - PRIN 2006. “Potenziamento e Applicazioni della Programmazione Logica Disgiuntiva” Unità della Università degli Studi di Messina.
 - MRG (groups.inf.ed.ac.uk/mrg): “Mobile Resource Guarantees”. The 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).

Attività didattiche

- Corsi triennali e magistrali al DI:
 - Informatica Generale, 2021–24 (6 CFU)
 - Programmazione Dichiarativa, 2020 – 2024 (6 CFU).
 - Laboratorio di Logica: 2018,2019 (3 CFU).
 - Metodi Formali: 2014–2016, 2019–2024 (6 CFU)
 - Programmazione Funzionale: 2012–2019 (6 CFU).
 - Laboratorio di Informatica per le Scienze Biologiche: 2011–2013 (3 CFU).
- Corsi di dottorato al DI:
- *Introduction to Interactive Theorem Proving with Coq*, 10 ore, Febbraio 2022.
 - *From Lightweight Validation To Formal Certification* 12 ore, Novembre 2015.
 - *Logica Lineare* 6 ore, Aprile 2011.
 - *Proof Search and Computation*. 10 ore, Marzo 2010.
- Altre lezioni:
 - Assistenza alle ore di laboratorio del corso di Intelligenza Artificiale 1, Autuno 2009.
 - Lezioni nel corso “Fondamenti logico-matematici dell’informatica” in collaborazione con Prof. Ugo Moscato, Università degli Studi di Milano-Bicocca, 2008.
 - Ciclo di lezioni su “Logiche di Programma in Isabelle/HOL” nell’ambito del corso di Metodi Formali dell’Informatica, DSI, Milano, 2004.

- Coordinatore del “Semantics Seminar”, University of Leicester:
2002 “Co-inductive Techniques in Relational Semantics”.
2001 “Operational and Denotational Semantics for Languages with Variable Bindings”.
- Assistente del Prof. Bob Harper per il corso “Principles of Programming Languages”, Carnegie Mellon University, Spring 2000.
- Docente del corso fondamentale del primo anno “Introduction to Logic”, Carnegie Mellon University, 1996-99.

Seminari ed interventi su invito

- “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.

Servizi alla comunità scientifica

- *Chair:*
 - *PPDP'24*, Milano, 10-11, settembre 2024.
 - *Convegno Italiano di Logica Computazionale*, 20-22 giugno 2016.
 - *LFMTP 2013: Logical Frameworks and Metalanguages. Theory and Applications*, in associazione con ICFP'13 ACM SIGPLAN International Conference on Functional Programming Boston, 2013.
 - *LFMTP 2006: Logical Frameworks and Metalanguages. Theory and Applications*, Seattle, July 2006, in associazione con FLOC 2006.
 - *MERLIN 2005: MEchanized Reasoning about Languages with variable bInding and Names: Organization Chair*;
 - tutorials della *European Joint Conferences on Theory and Practice of Software (ETAPS 2005)*, Aprile 2–10, 2005 Edinburgh: Tutorial Chair;
 - *MERLIN 2003*, in associazione con *PPDP 2003*, Uppsala, Svezia, 26 Agosto 2003;
 - *MERLIN 2001*, in associazione con *IJCAR 2001, International Joint Conference on Automated Reasoning*, Siena, Giugno 2001;
 - *Post-Conference Workshop on Proof-Theoretical Extensions of Logic Programming*, Santa Margherita Ligure, 18 Giugno 1994, in associazione con *International Conference on Logic Programming (ICLP'94)*.
- *Membro del comitato di programma:*
 - *LFMTP 2024: Logical Frameworks and Metalanguages. Theory and Applications*, in associazione con LICS, Tallin.
 - *CPP 2024: Certified Programs and Proofs*.
 - *LOPSTR 2022: 32st International Symposium on Logic-based Program Synthesis and Transformation* .
 - *LSFA 2020: 15th International Workshop on Logical and Semantic Frameworks, with Applications*.
 - *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*, in associazione con CADE-25, Berlin, June 2015
 - *ITP 2012: Interactive Theorem Proving*, Princeton University, Agosto 2012.
 - *LFMTP 2009: Logical Frameworks and Metalanguages. Theory and Applications*, in associazione con CADE-22, McGill University, Montreal, Canada, 2009.
 - *LFMTP 2008: Logical Frameworks and Metalanguages. Theory and Applications*, in associazione con LICS, Pittsburgh, June 2008.
 - *ICTCS 2007: Italian Conference in Theoretical Computer Science*, Rome, September 2007.
 - *LFMTP 2006: Logical Frameworks and Metalanguages. Theory and Applications*, Seattle, July 2006, in associazione con FLOC 2006.
 - *MERLIN 2005: MEchanized Reasoning about Languages with variable bInding and Names*, Tallin, Estonia, Agosto 2005, in associazione con 10th ACM SIGPLAN International Conference on Functional Programming (ICFP 2005);
 - *PPDP 2003, 5th International Conference on Principles and Practices of Declarative Programming Languages*, Uppsala, Svezia, 27-29 Agosto 2003.
- *Organizzatore locale*

– *Logic Colloquium 2023*, Milano, Giugno 2023.

- *Peer reviews*:

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

Riconoscimenti

- Vincitore della borsa di studio del CNR per corsi di perfezionamento all'estero in Scienze Matematiche, bando 203.01.62 del 18/5/93, secondo in graduatoria con votazione 49.90/50.
- Vincitore del “Best Paper Award”, 1st International Conference on Practical Applications of Prolog, - London, 1992.
- “Invited panelist” alla discussione su “Prolog in the real world” concludente la 20th *Joint International Conference on Logic Programming (ICLP'92)*, Washington, 11/1992.

Publicazioni

1.1 Articoli su invito

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.

1.2 Articoli in riviste internazionali

14. Dale Miller and Alberto Momigliano. Property-Based Testing by Elaborating Proof Outlines. To appear in *Theory and Practice of Logic Programming*.
13. Andreas Abel, Guillam Allais, Aliya Hameer, Alberto Momigliano, Brigitte Pientka, Steven Schaefer and Kathrin Stark. POPLMark Reloaded: Mechanizing Proofs by Logical Relations. *Journal of Functional Programming*, Dec. 2019, <http://dx.doi.org/10.1017/S0956796819000170>.
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. α 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.

1.3 Articoli in riviste elettroniche con *peer reviewing*

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>

1.4 Articoli in librerie elettroniche con *peer reviewing*

5. Alberto Momigliano and Martina Sassella. More Church-Rosser Proofs in Beluga. *LSFA2023*. EPTCS, vol 402, <https://cgi.cse.unsw.edu.au/~eptcs/content.cgi?LSFA2023>.
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>.

1.5 Articoli in conferenze internazionali

31. Marco Carbone, David Castro-Perez, Francisco Ferreira, Lorenzo Gheri, Frederik Krogsdal Jacobsen, Alberto Momigliano et al. The Concurrent Calculi Formalisation Benchmark. *Coordination Models and Languages 26th IFIP WG 6.1 International Conference, COORDINATION 2024*. LNCS, <https://link.springer.com/book/10.1007/978-3-031-62697-5>.
30. Marco Mantovani and Alberto Momigliano. Towards substructural property-based testing. *LOPSTR'21*, LNCS, March 2022.
29. Matteo Manighetti, Dale Miller and A.M. Two applications of logic programming to Coq. *Post-Proceedings of TYPES'20*. LIPICS Vol. 188, June 2021,
28. Roberto Blanco, Dale Miller and Alberto Momigliano. Property-Based Testing via Proof Reconstruction. *PPDP 2019: 5:1-5:13*, ACM, <https://doi.org/10.1145/3354166.3354170>
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 α 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: *Collegium 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, *15th 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.), *14th 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, 14th 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, 7th 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.

1.6 Articoli in conferenze nazionali con *peer reviewing*

8. Matteo Cavada, Andrea Colò and Alberto Momigliano. *MutantChick: type-preserving mutation analysis for Coq*. CILC'20, Sept. 2020. CEUR, vol. 2710.
7. Alberto Momigliano. Why Proof-Theory Matters in Specification-Based Testing. *ICTCS'20*. CEUR Workshop Proceedings vol. 2756.
6. Giorgio Marabelli and Alberto Momigliano. Formalizing the meta-theory of program equivalences in Coq. *ICTCS'19. CEUR Workshop Proceedings Volume 2504*.
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