

Curriculum Vitae et Studiorum

ALBERTO POLICRITI

Personal Data

Name: Alberto Policriti
Birth Date: November 12, 1960
Nationality: Italian
Private : via Trieste 22, Pasian di Prato, 33037 Udine, Italy
Work-1 : Department of Mathematics and Computer Science, University of Udine, via delle Scienze 206, 33100 Udine - Italy
Work-2 : Istituto di Genomica Applicata (IGA), Parco Scientifico e Tecnologico Luigi Danieli Via J.Linussio, 51 33100 Udine - Italy
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Education

1980-1984 “Laurea” degree in Mathematics, University of Turin, *cum laude*
1986 CNR fellowship at the Courant Insitute of Mathematical Sciences, New York University
1988 Master in Computer Sciences, CIMS-NYU
1990 PhD in Computer Sciences CIMS-NYU (advisor prof. M. Davis)

Academic, Administrative, and Visiting Positions

1986-1990	ENIDATA fellowship at CIMS-NYU;
1989-1992	Researcher, University of Udine;
1991	Visiting member Robotics lab. NYU;
1992	Visiting member Robotics lab. NYU;
1992-2000	Associate Professor, University of Udine;
1998-2001	vice-Director of the Dept. of Mathematics and Computer Science;
2000-today	Full Professor, University of Udine;
2001 (Sep.-Oct.)	Visiting member at the Computer Science Department, University of Stanford;
2002 (Mar.)	Visiting member at the NYU Bioinformatics Laboratory;
2002-2006	Coordinator Biotechnology Program, University of Udine;
2004 (Sep.)	Director of the summer school BCI (Biology, Computation and Information);
2005 (Jul.)	Visiting member at the “Laboratoire de Génomique Analytique”, University “Pierre et Marie Curie”, Paris ;
2005 (Sep.)	Director of the summer school BCI (Biology, Computation and Information);
2006 (Sep.)	Director of the summer school BCI (Biology, Computation and Information);
2007 (Jun.)	Director of the summer school BCI (Biology, Computation and Information);
2008 (Sep.)	Director of the summer school BCI (Biology, Computation and Information);

PhD students

1. A. Dovier *Computable Set Theory and Logic Programming*, Ph.D. in Computer Science, Pisa-Udine.
2. (co-promotor) A. Montanari *Metric and Layered Temporal Logic*, Ph.D., University of Amsterdam (promotor prof. J.F.A.K. van Benthem).
3. (co-promotor) G. D’Agostino *Modal Logic and Set Theory: Translation, Bisimulation and Interpolation*, Ph.D., University of Amsterdam (promotor prof. J.F.A.K. van Benthem).
4. C. Piazza *Computing in Non Standard Set Theories* Ph.D. in Computer Science, Udine.
5. R. Gentilini *Graph Algorithms for Massive Data Sets* Ph.D. in Computer Science, Udine.
6. N. Vitacolonna *Intervals: decidability, algorithms, and games* Ph.D. in Computer Science, Udine.

7. A. Casagrande *Hybrid Systems: a first-order approach to verification and approximation techniques*. Ph.D. in Computer Science, Udine.
8. S. Scalabrin *Floating inside the genomes: from physical maps to transposable elements annotation* Ph.D. in Computer Science, Udine.
9. M. Zantoni *Bioinformatics support in a DNA sequence process* Ph.D. in Computer Science, Udine.
10. C. Del Fabbro *tba* Ph.D. in Computer Science, Udine. Pending.
11. S. Sugavanam *tba* Ph.D. in Computer Science, Udine. Pending.

Research

- Set-Theoretic Decidability and Combinatorial Problems
- Unification and Extensions of Logic Programming
- Automated Deduction
- Modal and Temporal Logics
- Languages for the Specification and Verification of Reactive Systems
- Algorithms and Techniques for Model Checking
- Algorithmic Aspects of Computational Biology and Bioinformatics
- Systems Biology

Teaching

- 1992/93** 1. *Teoria degli algoritmi e della calcolabilità* (S.M.F.N.);
 2. *Lectures on Automated Deduction* (S.M.F.N.);
- 1993/94** 1. *Teoria degli algoritmi e della calcolabilità* (S.M.F.N.);
 2. *Trattamento dell'informazione nell'impresa* (S.M.F.N.);
 3. *Informatica generale* (Lettere);
- 1994/95** 1. *Documentazione automatica* (S.M.F.N.);
 2. *Informatica generale* (Lettere);
 3. organization of the course: *Introduction to Multimedia* by J. T. Schwartz;
- 1995/96** 1. *Algoritmi e Strutture Dati* (S.M.F.N.);
 2. *Teoria degli Algoritmi e della Calcolabilità (avanzato)* (S.M.F.N.);
 3. *Informatica generale* (Lettere);

4. *Informatica* (Scuola di specializzazione in Anestesia e Rianimazione, Medicina);
- 1996/97**
1. *Algoritmi e Strutture Dati* (S.M.F.N.);
 2. *Teoria degli Algoritmi e della Calcolabilità (avanzato)* (S.M.F.N.);
 3. *Informatica generale* (Lettere);
 4. *Informatica* (Scuola di specializzazione in Anestesia e Rianimazione, Medicina);
- 1997/98**
1. *Algoritmi e Strutture Dati* (S.M.F.N.);
 2. *Algoritmi e Strutture Dati (avanzato)* (S.M.F.N.);
 3. *Informatica generale* (Lettere);
 4. *Informatica* (Scuola di specializzazione in Anestesia e Rianimazione, Medicina);
 5. *Automated Deduction* Ph.D. course, Valencia (Spain);
 6. Organization of the course *Temporal verification of reactive systems* by Z. Manna;
- 1998/99**
1. *Algoritmi e Strutture Dati* (S.M.F.N.);
 2. *Algoritmi e Strutture Dati (avanzato)* (S.M.F.N.);
 3. Coordinatore dei corsi di Informatica per la Facoltà di Lettere;
 4. *Informatica* (Scuola di specializzazione in Anestesia e Rianimazione, Medicina);
 5. *Temporal Logics* Ph.D. course at Pisa and Udine;
 6. *Temporal Logics and Model Checking* Ph.D. course, Valencia (Spagna);
- 1999/00**
1. *Algoritmi e Strutture Dati* (S.M.F.N.);
 2. *Algoritmi avanzati I* (S.M.F.N.);
 3. *Informatica* (Scuola di specializzazione in Anestesia e Rianimazione, Medicina);
 4. Organization of the course: *Hybrid Systems* by M. Antoniotti, A. Balluchi, L. Benvenuti and T. Villa
 5. Organization of the course: *Logic and Games* by J.F.A.K. van Benthem;
- 2000/01**
1. *Algoritmi e Strutture Dati* (S.M.F.N.);
 2. *Model Checking I* (S.M.F.N.);
 3. *Model Checking II* (S.M.F.N.);
 4. Organization of the course: *Computing with Modal Logics* by Maarten de Rijke;

5. Summer course *Metric and Layered Temporal Logics for Time Granularities* at the European Summer School on Logic Language and Information 2000, Birmingham (UK);
- 2001/02**
1. *Algoritmi e Strutture Dati* (S.M.F.N.);
 2. *Model Checking I* (S.M.F.N.);
 3. *Model Checking II* (S.M.F.N.);
 4. Organization of the courses: *Topics in Computational Biology: Systems Biology* by B. Mishra and *Model-checking methods for infinite state systems* by W. Thomas;
 5. Summer course *Model Checking and its Complexities* at the European Summer School on Logic Language and Information 2002, Trento (I);
- 2002/03**
1. *Algoritmi e Strutture Dati* (S.M.F.N.);
 2. *Informatica generale* (Biotecnologie, Interfacoltà);
 3. *Model Checking* (S.M.F.N.);
 4. *Algoritmi avanzati* (S.M.F.N.);
 5. *Storia dell'Informatica* (S.S.I.S.S.);
- 2003/04**
1. *Algoritmi e Strutture Dati* (S.M.F.N.);
 2. *Informatica generale* (Biotecnologie, Interfacoltà);
 3. *Model Checking* (S.M.F.N.);
 4. *Algoritmi avanzati* (S.M.F.N.);
 5. *Algoritmi e complessità* (S.M.F.N.);
 6. *Storia dell'Informatica* (S.S.I.S.S.);
 7. *Modelli di calcolo e programmazione* (S.S.I.S.S.);
 8. Organization of the summer school BCI (Biology, Computation and Information);
- 2004/05**
1. *Algoritmi e Strutture Dati* (S.M.F.N.);
 2. *Informatica generale* (Biotecnologie, Interfacoltà);
 3. *Model Checking* (S.M.F.N.);
 4. *Algoritmi avanzati* (S.M.F.N.);
 5. *Algoritmi e complessità* (S.M.F.N.);
 6. *Storia dell'Informatica* (S.S.I.S.S.);
 7. *Modelli di calcolo e programmazione* (S.S.I.S.S.);
 8. Organization of the summer school BCI (Biology, Computation and Information);
- 2006/07** Sabbatical.

- 2007/08**
1. *Algoritmi e Strutture Dati* (S.M.F.N.);
 2. *Informatica generale* (Biotecnologie, Interfacoltà);
 3. *Model Checking* (S.M.F.N.);
 4. *Bioinformatics* (Biotecnologie Sanitarie);
 5. *Algoritmi avanzati* (S.M.F.N.);
 6. *Modelli di calcolo e programmazione* (S.S.I.S.S.);
 7. Organization of the summer school BCI (Biology, Computation and Information);

Other activities

- 1996-2004 Director of the Computer Science lab. at the School of Sciences of the University of Udine.
- 2001-today Director of the Laboratory for Bioinformatics, Verification, and Parallel Computation, Dipartimento di Matematica e Informatica, Università di Udine.
- Referee and program committee member for many international conferences and journals (including: Journal of Symbolic Computation, Communication on Pure and Applied Mathematics, Journal of Automated Reasoning, Theoretical Computer Science, Discrete Mathematics, Journal on Computational Biology).
- Editor of *Transactions on Computational Systems Biology*.
- Editor of *LNAI book series* of the *Association of Logic, Language and Information*.
- 2004-today Member of the Scientific Commission of the *Gruppo Nazionale per il Calcolo Scientifico* of the *Istituto Nazionale di Alta Matematica*.
- 2005 Chairman of the *E. W. Beth Dissertation Prize* of the European Association for Logic, Language and Information.
- 2006 Member of the Bioinformatics Scientific Commission of the *CBM (Centro di Biomedicina Molecolare)*, Trieste.
- Founder and Director of the Bioinformatics division of the *IGA (Istituto di Genomica Applicata)*, Parco Scientifico e Tecnologico “L. Danieli”, Udine.

Current Support

[1] "Fondo per gli Investimenti della Ricerca di Base (FIRB03).

Project *LIBI: International Laboratory of BioInformatics* Technological Research Units:- CINECA - INFN - SPACI/CACT-ISUFI, University of Lecce - IBM Semea Sud. Industrial partner, IBM. Scientific Research Units: - CNRBA (Istituto Tecnologie Biomediche, CNR, Section of Bari) - UNIBO (University of Bologna) - UNIMI (University of Milan) - CBM (Centro di Biomedicina Molecolare, Trieste). A. Policriti will operate as member of CBM. Current project.

[2] Fondo speciale per la ricerca regionale in FVG, 02 - 04, *Formal verification, certification and model checking for reactive, concurrent, and embedded systems*. A. Policriti coordinator.

[3] Fondo attrezzature di laboratorio, 02 - 05, Laboratory for Bioinformatics, Verification, and Parallel Computation. A. Policriti coordinator.

[4] Istituto Nazionale di Alta Matematica. Inter-group project 2003: *Metodi matematici e algoritmici per l'analisi di sequenze di nucleotidi e amminoacidi*. A. Policriti coordinator.

[5] Gruppo Nazionale Calcolo Scientifico project 2004: Bioinformatica: *Metodi computazionali e basi di dati per l'analisi di sequenze proteiche e di DNA*. A. Policriti coordinator.

[6] PRIN-Cofin project, 2004-06: *Computational Tools for Building and Checking Biological Systems Models* (in *Sybilla: Systems Biology: modellazione, linguaggi e analisi*). A. Policriti local coordinator.

[7] PRIN-Cofin project, 2007-09: *Biological systems, automata based hybrid models and model checking techniques* (in *BISCA: Biologically-inspired systems and calculi and their applications*). A. Policriti local coordinator. Current project.

[8] L.R. 11/2003 project, 2007: *BIOcheck A Scalable Computational Tool for Building and Checking Biological Models*. A. Policriti coordinator.

Publications

PhD thesis

- [1] A. Policriti. *On a generalization of Herbrand's theorem*. PhD thesis, New York University - GSAS, Courant Inst. of Math. Sciences, 1990.

Books

- [2] D. Cantone, E. G. Omodeo, and A. Policriti. *Set Theory for Computing. From Decision Procedures to Declarative Programming with Sets*. Monographs in Computer Science. Springer-Verlag, 2001.

Papers published on international scientific journals

- [3] A. Policriti. Completeness and decidability of the deducibility problem for some class of formulas of set theory. *Matematiche*, 42:49–66, 1987.
- [4] F. Parlamento and A. Policriti. Decision procedures for elementary sub-languages of set theory. IX. Unsolvability of the decision problem for a restricted subclass of the Δ_0 -formulas in set theory. *Comm. Pure Appl. Math.*, XLI:221–251, 1988.
- [5] F. Parlamento and A. Policriti. The logically simplest form of the infinity axiom. *Proc. of the American Mathematical Society*, 103(1):274–276, May 1988.
- [6] D. Cantone, V. Cutello, and A. Policriti. Decidability results for classes of purely universal formulae and quantifiers elimination in Set Theory. *Matematiche*, 43:303–336, 1988.
- [7] F. Parlamento and A. Policriti. Note on: The logically simplest form of the infinity axiom. *Proc. of the American Mathematical Society*, 108(1), 1990.
- [8] D. Cantone, E.G. Omodeo, and A. Policriti. The automation of syllogistic. II: Optimization and complexity issues. *Journal of Automated Reasoning*, 6(2):173–187, 1990.
- [9] F. Parlamento and A. Policriti. Decision procedures for elementary sub-languages of set theory. XIII. Model graphs, reflection and decidability. *Journal of Automated Reasoning*, 7:271–284, 1991.
- [10] F. Parlamento and A. Policriti. Expressing infinity without foundation. *Journal of Symbolic Logic*, 56(4):1230–1235, 1991.
- [11] F. Parlamento and A. Policriti. The decision problem for restricted universal quantification in set theory and the axiom of foundation. *Zeitschrift für Mathematische Logik und Grundlagen der Mathematik*, 38(2):143–156, 1992.
- [12] F. Parlamento and A. Policriti. Undecidability results for restricted universally quantified formulae of set theory. *Comm. Pure Appl. Math.*, XLVI(1):57–73, 1993.
- [13] E.G. Omodeo, F. Parlamento, and A. Policriti. A derived algorithm for evaluating ε -expressions over abstract sets. *Journal of Symbolic Computation*, 15(5-6):673–704, 1993. Special issue on Automatic Programming, A.W. Biermann and W. Bibel editors.
- [14] A. Policriti and J.T. Schwartz. *T*-theorem proving I. *Journal of Symbolic Computation*, 20:315–342, 1995.

- [15] G. D’Agostino, A. Montanari, and A. Policriti. A set-theoretic translation method for polymodal logics. *Journal of Automated Reasoning*, 3(15):317–337, 1995.
- [16] E.G. Omodeo and A. Policriti. Solvable set/hyperset contexts: I. Some decision procedures for the pure, finite case. *Comm. Pure Appl. Math.*, 48(9-10):1123–1155, 1995. Special issue in honor of J.T. Schwartz.
- [17] E.G. Omodeo, F. Parlamento, and A. Policriti. Decidability of $\exists^*\forall$ -sentences in Membership Theories. *Mathematical Logic Quarterly*, 42(1):41–58, 1996.
- [18] D. Dikranjan and A. Policriti. Complementation in the Lattice of Equivalence Relations. *Discrete Mathematics*, 159:83–94, 1996.
- [19] A. Montanari and A. Policriti. Decidability results for metric and layered temporal logics. *Notre Dame Journal of Symbolic Logic*, 37(2):260–282, 1996.
- [20] J.F.A.K. van Benthem, G. D’Agostino, A. Montanari, and A. Policriti. Modal deduction in second-order logic and set theory-I. *Journal of Logic and Computation*, 7(2):251–265, 1997.
- [21] F. Parlamento, A. Policriti, and K.P.S.B. Rao. Witnessing Differences Without Redundancies. *Proc. of the American Mathematical Society*, 125(2):587–594, February 1997.
- [22] A. Montanari and A. Policriti. Book review: Temporal logic. from ancient ideas to artificial intelligence (by Peter Øhrstrøm and Per F. V. Hasle). *Journal of Symbolic Logic*, 62(3):1044–1046, 1997.
- [23] J.F.A.K. van Benthem, G. D’Agostino, A. Montanari, and A. Policriti. Modal deduction in second-order logic and set theory-II. *Studia Logica*, 60(3):387–420, 1998.
- [24] A. Dovier, A. Policriti, and G. Rossi. A uniform axiomatic view of lists, multisets, and sets, and the relevant unification algorithms. *Fundamenta Informaticae*, 36(2/3):201–234, 1998.
- [25] A. Formisano and A. Policriti. T -resolution: refinements and model elimination. *Journal of Automated Reasoning*, 22(4):433–483, 1999.
- [26] A. Marcone, F. Parlamento, and A. Policriti. Finite families with few symmetric differences. *Proc. of the American Mathematical Society*, 127(3):835–845, 1999.
- [27] A. Dovier, E.G. Omodeo, and A. Policriti. Solvable set/hyperset contexts: II. A goal driven unification algorithm for the blended case. *Applicable Algebra in Engineering, Communication, and Computing*, 9(4):293–332, 1999.

- [28] A. Montanari, A. Peron, and A. Policriti. Theories of ω -layered metric temporal structures: Expressiveness and decidability. *Logic Journal of the IGPL*, 7(1):79–102, 1999.
- [29] A. Montanari, A. Peron, and A. Policriti. The taming (timing) of the states. *Logic Journal of the IGPL*, 8(5):681–699, September 2000.
- [30] M. Falaschi, A. Policriti, and A. Villanueva. Modeling timed concurrent systems in a temporal concurrent constraint language. I. *Electronic Notes in Theoretical Computer Science*, 48, 2001.
- [31] R. Gentilini, Piazza C., and A. Policriti. Simulation reduction as constraint. *Electronic Notes in Theoretical Computer Science*, 76, 2002.
- [32] A. Montanari, A. Peron, and A. Policriti. Extending kamp’s theorem to model time granularity. *Journal of Logic and Computation*, 12(4):641–678, August 2002.
- [33] A. Montanari, A. Policriti, and M. Slanina. Alternative translation techniques for propositional and first-order modal logics. *Journal of Automated Reasoning*, 28(4):397–415, 2002.
- [34] M. Antoniotti, A. Policriti, N. Ugel, and B. Mishra. Model building and model checking for biochemical processes. *Cell Biochemistry and Biophysics*, 38(3):271–286, 2003.
- [35] R. Gentilini, C. Piazza, and A. Policriti. From Bisimulation to Simulation. Coarsest Partition Problems. *Journal of Automated Reasoning*, 31(1):73–103, 2003.
- [36] L. Martí, A. Policriti, and L. Garcí. Hybrid adaptive resonance theory neural networks for universal function approximation. In Ajith Abraham and Lakhmi Jain, editors, *Innovations in Intelligent Systems and Applications, Studies in Fuzziness and Soft Computing*. Springer Verlag, 2003.
- [37] C. Piazza and A. Policriti. Ackermann encoding, bisimulations, and OBDD’s. *Theory and Practice of Logic Programming*, 4(5):1–24, 2004. Special issue on Verification and Computational Logic.
- [38] A. Dovier, C. Piazza, and A. Policriti. An Efficient Algorithm for Computing Bisimulation Equivalence. *Theoretical Computer Science*, 311(1-3):221–256, 2004.
- [39] R. Daruwala, Y. Zhou, N. Ugel, A. Policriti, M. Antoniotti, S. Paxia, M. Rejali, A. Rudra, V. Cherepinsky, N. Silver, W. Casey, C. Piazza, M. Simeoni, P. Barbano, M. Spivak, J-W. Feng, O. Gill, M. Venkatesh, F. Cheng, B. Sun, I. Ioniata, T.S. Anantharaman, E.J.A. Hubbard, A. Pnueli, D. Harel, V. Chandru, R. Hariharan, M. Wigler, F. Park, S.-C.. Lin, Y. Lazebnik, F. Winkler, C. Cantor, A. Carbone, , M. Gromov, and B. Mishra. A sense of life: Computational & experimental investigations

- with models of biochemical & evolutionary processes. *OMICS - A Journal of Integrative Biology*, 7(3):253–268, 2003. Special Issue on BioCOMP, Ed.: S. Kumar.
- [40] M. Antoniotti, C. Piazza, A. Policriti, M. Simeoni, and B. Mishra. Taming the Complexity of Biochemical Models through Bisimulation and Collapsing: Theory and Practice. *Theoretical Computer Science*, 325(1):45–67, 2004.
- [41] A. Formisano, E. Omodeo, and A. Policriti. Three-variable statements of set-pairing. *Theoretical Computer Science*, 322(1):147–173, 2004.
- [42] A. Formisano, E.G. Omodeo, and A. Policriti. The axiom of elementary sets on the edge of Peircean expressibility. *Journal of Symbolic Logic*, 70(3):953–968, 2005.
- [43] M. Morgante, A. Policriti, N. Vitacolonna, and A. Zuccolo. Structured Motifs Search. *Journal of Computational Biology*, 12(8):1063–1080, October 2005.
- [44] Eugenio G. Omodeo, Domenico Cantone, Alberto Policriti, and Jacob T. Schwartz. A computerized referee. In Oliviero Stock and Marco Schaerf, editors, *Reasoning, Action and Interaction in AI Theories and Systems. Essays Dedicated to Luigia Carlucci Aiello*, volume 4155 of *Lecture Notes in Computer Science*, pages 117–139. Springer, 2006.
- [45] R. Gentilini, C. Piazza, and A. Policriti. Symbolic graphs: Linear solutions to connectivity related problems. *Algorithmica*, 50(1):120–158, 2007.
- [46] O. Jaillon, J. M. Aury, B. Noel, A. Policriti, C. Clepet, A. Casagrande, N. Choisne, S. Aubourg, N. Vitulo, C. Jubin, A. Vezzi, F. Legeai, P. Huguency, C. Dasilva, D. Horner, E. Mica, D. Jublot, J. Poulain, C. Bruyere, A. Billault, B. Segurens, M. Gouyvenoux, E. Ugarte, F. Cattonaro, V. Anthouard, V. Vico, C. Del Fabbro, M. Alaux, G. Di Gaspero, V. Dumas, N. Felice, S. Paillard, I. Juman, M. Moroldo, S. Scalabrin, A. Canaguier, I. Le Clainche, G. Malacrida, E. Durand, G. Pesole, V. Laucou, P. Chatelet, D. Merdinoglu, M. Delledonne, M. Pezzotti, A. Lecharny, C. Scarpelli, F. Artiguenave, M. E. Pe, G. Valle, M. Morgante, M. Caboche, A. F. Adam-Blondon, J. Weissenbach, F. Quetier, and P. Wincker. The grapevine genome sequence suggests ancestral hexaploidization in major angiosperm phyla. *Nature*, 449:463–467, 2007.
- [47] L. Bortolussi and A. Policriti. Modeling biological systems in stochastic concurrent constraint programming. *Constraints*, 13(1), 2008.
- [48] M. Zantoni, E. Dalla, A. Policriti, and C. Schneider. Motif discovery fixing mismatch positions. In Giorgio Fotia Vincenzo Cutello and Luigia Puccio, editors, *APPLIED AND INDUSTRIAL MATHEMATICS IN ITALY II*.

Selected Contributions from the 8th SIMAI Conference, volume 75 of *Series on Advances in Mathematics for Applied Sciences*. World Scientific, 2007. (ISBN 978-981-270-938-7).

- [49] L. Bortolussi and A. Policriti. Stochastic concurrent constraint programming and differential equations. In *Proceedings of Fifth Workshop on Quantitative Aspects of Programming Languages, QAPL 2007*, volume ENTCS 16713, 2007.
- [50] A. Policriti A. Casagrande, C. Piazza and Bud Mishra. Inclusion dynamics hybrid automata. *Information and Computation*, Accepted for Publication, 2008.
- [51] L. Bortolussi and A. Policriti. Hybrid systems and biology. continuous and discrete modeling for systems biology. In P. Degano M. Bernardo and G. Zavattaro, editors, *Formal Methods for Computational System Biology*, volume 5016, pages 424–448. Springer, 2008. (ISBN/ISSN: 978-3-540-68892-1).

Contributions to international scientific conferences

- [52] D. Cantone, A. Ferro, E.G. Omodeo, and A. Policriti. Scomposizione sillogistica disgiuntiva. In *Atti del Convegno Nazionale sulla Programmazione Logica*, 1989.
- [53] D. Cantone, V. Cutello, and A. Policriti. Set-theoretic reductions of Hilbert’s tenth problem. In *Proc. of 3rd Workshop “Computer Science Logic” 1989*, pages 65–75, 1990. Lecture Notes in Computer Science, 440.
- [54] V. Cutello and A. Policriti. On the complexity of the satisfiability problem for an unquantified theory involving basic notion of real plane topology. In G. Ausiello, D.P. Bovet, and R. Petreschi, editors, *Proc. of the 1st Italian Conference on Algorithms and Complexity (CIAC 1990)*, pages 129–147. World Scientific, Singapore, 1990.
- [55] E.G. Omodeo, F. Parlamento, and A. Policriti. A contribution to the automated treatment of membership theories. In *Atti del Convegno Nazionale sulla Programmazione Logica*, 1990.
- [56] E.G. Omodeo, F. Parlamento, and A. Policriti. Truth tables for a combinatorial kernel of set theories. In L. Carlucci Aiello, editor, *Proc. of ECAI’90: 9th European Conference on Artificial Intelligence (Stockholm, Sweden)*, pages 485–490, New York, 1990. John Wiley & Sons.
- [57] E.G. Omodeo, A. Policriti, and G. Rossi. Che genere di insiemi/multiinsiemi/iperinsiemi incorporare nella programmazione logica? In *Proceedings of AGP-93*, 1993.

- [58] E.G. Omodeo and A. Policriti. Decision procedures for set/hyperset contexts. In A. Miola, editor, *Design and Implementation of Symbolic Computation Systems (DISCO'93)*, LNCS 722, pages 192–215, Berlin, 1993. Springer-Verlag.
- [59] Dovier A., E.G. Omodeo, A. Policriti, and G. Rossi. Solving systems of equations over hypersets. In *Proceedings of AGP-94*, 1994.
- [60] G. D'Agostino, A. Montanari, and A. Policriti. Translating modal formulas as set-theoretic terms. In *Proceedings of Logic Colloquium 1994*, 1994.
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