

# Publications

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24 juillet 2006

## **Thèse de doctorat et revues nationales (Ph.D thesis and national journals)**

- 1 N. Olivetti. Algorithmic Proof Theory for non-classical and modal logics. PhD thesis, Dipartimento di Informatica, Università di Torino, 1995.
- 2 N. Olivetti. Circumscription and Closed World Assumption. Atti della Accademia delle Scienze di Torino, 123(Fasc. 5-6) :207-217, 1989

## **Revues internationales (International Journals)**

- 3 N. Olivetti and L. Terracini. N-Prolog and Equivalence of Logic Programs. J. of Logic, Language and Information, 1(4) :253-340, 1992.
- 4 N. Olivetti. Tableaux and Sequent Calculus for Minimal Entailment. J. of Automated Reasoning, 9 :99-139, 1992.
- 5 D. M. Gabbay, L. Giordano, A. Martelli, and N. Olivetti. A language for handling hypothetical updates and inconsistency. J. of the Interest Group in Pure and Applied Logic, 4(3) :385-416, 1996.
- 6 D. Mundici and N. Olivetti. Resolution and model building in the infinite-valued calculus of Lukasiewicz. Theoretical Computer Science, (200) :335-366, 1998.
- 7 L. Giordano and N. Olivetti. Combining Negation as Failure and Embedded Implications in Logic Programs. Journal of Logic Programming, 36(2) :91-147, 1998.
- 8 D. M. Gabbay and N. Olivetti. Algorithmic proof methods and cut elimination for implicational logics - Part i, modal implication. Studia Logica, 61(2) :237-280, 1998.
- 9 A. Ciabattoni, D. M. Gabbay, and N. Olivetti. Cut-free proof systems for logics of weak excluded middle. Soft Computing, 2(4) :147-156, 1998.

- 10 D. M. Gabbay, L. Giordano, A. Martelli, N. Olivetti, and M. L. Sapino. Conditional Reasoning in Logic Programming. *Journal of Logic Programming*, 44(1-3) :37-74, 2000.
- 11 L. Giordano, V. Gliozzi, and N. Olivetti. Iterated Belief Revision and Conditional Logic. *Studia Logica*, 70(1) :23-47, 2002.
- 12 P. A. Bonatti and N. Olivetti. Sequent calculi for propositional nonmonotonic logics. *ACM Transactions on Computational Logic*, 3(2) :226-278, 2002.
- 13 N. Olivetti. Tableaux for lukasiewicz infinite-valued logic. *Studia Logica*, 73(1) :81-111, 2003.
- 14 G. Metcalfe, N. Olivetti, D. M. Gabbay. Sequent and hypersequent calculi for abelian and Lukasiewicz logics. *ACM Transaction on Computational Logic (TOCL)*, 6(3) : 578-613, 2005.
- 15 G. Metcalfe, N. Olivetti and D. Gabbay. Analytic Calculi for Product Logics. *Archive for Mathematical Logic*, 43 : 859-889, 2004.
- 16 G. Metcalfe, D. Gabbay, and N. Olivetti. Hypersequents and Fuzzy logic. *RACSAM (Revista Real Academia de Ciencias, Espana) Serie A. Mat.*, 98(1) :113-126, 2004.
- 17 L. Giordano, V. Gliozzi, N. Olivetti. Weak AGM postulates and strong Ramsey Test : A logical formalization. *Artificial Intelligence*, 168(1) : 1-37, 2005.
- 18 G. Metcalfe, N. Olivetti, D. Gabbay. Lukasiewicz Logic : From Proof Systems To Logic Programming. In : *Logic Journal of IGPL*, 13(5) : 561-585, 2005.
- 19 N. Olivetti, G. Pozzato, C. Schwind. A Sequent Calculus and a Theorem Prover for Standard Conditional Logics. *ACM Transaction on Computational Logic (TOCL)*, to appear 2006.

### **Livres et Chapitres de Livres (Books and book chapters)**

- 20 N. Olivetti. Tableaux for nonmonotonic logics. In M. D'Agostino et al., editor, *Handbook of Tableau Methods*. Kluwer Academic Publisher, 1999.
- 21 D. M. Gabbay and N. Olivetti. *Goal-Directed Proof-Theory*. Applied Logic Series. Kluwer Academic Publisher, Dordrecht, 2000.
- 22 D. Gabbay and N. Olivetti. Goal oriented deductions. In D. Gabbay and F. Guenther, editors, *Handbook of Philosophical Logic*, volume 9, pages 199-285. Kluwer Academic Publishers, second edition, 2002.
- 23 D. Gabbay and N. Olivetti. Interpolation in Goal-directed Proof-Systems I. In *Proc. of Logic Colloquium 2001* , (LC01). Association for Symbolic Logic, *Lecture Notes in Logic*, pages 170-216, 2005.
- 24 G. Metcalfe, N. Olivetti. Goal-Directed Methods for Fuzzy Logics. in : *Festschrift in honour of Dov Gabbay's 60th birthday*, Sergei Artemov, Howard Barringer, Luis Lamb and John Woods (eds.), vol. II, pp. 307-330, King's College Publications, 2005.

**Conférences Internationales avec comité de lecture et actes publiés (Refereed conference papers with published proceedings)**

- 25 L. Giordano and N. Olivetti. Negation as failure in intuitionistic logic programming. In Proc. Joint International Conference and Symposium on Logic Programming, pages 431-445, MIT Press, 1992.
- 26 D. M. Gabbay, L. Giordano, A. Martelli, and N. Olivetti. Conditional Logic Programming. In Proc. ICLP94, pages 272-289, MIT Press, 1994.
- 27 D. M. Gabbay, L. Giordano, A. Martelli, and N. Olivetti. Hypothetical updates, priority and inconsistency in a logic programming language. In Proc. 3rd Int. Conference on Logic Programming and Non-Monotonic Reasoning, volume 928 of LNCS, pages 203-216, Springer, 1995.
- 28 P. A. Bonatti and N. Olivetti. A sequent calculus for skeptical default logic. In Proc. TABLEAUX'97, volume 1227 of LNAI, pages 107-121, Springer, 1997.
- 29 P. A. Bonatti and N. Olivetti. A sequent calculus for circumscription. In Proc. of CSL'97, Computer Science Logic, volume 1414 of LNCS, pages 98-114, Springer, 1998.
- 30 L. Giordano, V. Gliozzi, and N. Olivetti. A Conditional Logic for Belief Revision. In Proc. of the Sixth European Workshop on Logic in Artificial Intelligence, JELIA'98, volume 1489 of LNAI, pages 294-308, Springer, 1998.
- 31 L. Giordano, V. Gliozzi, and N. Olivetti. A Conditional Logic for Iterated Belief Revision. In Proc. ECAI 2000 - European Conference on Artificial Intelligence, pages 28-32, IOS Press, 2000.
- 32 N. Olivetti and C. Schwind. A sequent calculus and a complexity bound for minimal conditional logic. In Proc. of Theoretical Computer Science, 7th Italian Conference, ICTCS'2001, volume 2202 of LNCS, pages 384-404, Springer, 2001.
- 33 L. Giordano, V. Gliozzi, and N. Olivetti. Belief Revision and The Ramsey Test : a solution. In Proc. AI\*IA 2001, Italian Conference on Artificial Intelligence, volume 2175 of LNAI, pages 165-180, Springer, 2001.
- 34 G. Metcalfe, N. Olivetti, and D. M. Gabbay. Analytic Sequent Calculi for Abelian and lukasiewicz Logics. In Proc. of TABLEAUX 2002 (Automated Reasoning with Analytic Tableaux and Related Methods), volume 2381 of LNAI, pages 191-205, Springer, 2002.
- 35 L. Giordano, V. Giozzi, N. Olivetti, and C. Schwind. Tableau Calculi for Preference-Based Conditional Logics. In Proc. of TABLEAUX 2003 (Automated Reasoning with Analytic Tableaux and Related Methods), volume 2796 of LNAI, pages 81-101, Springer, 2003.
- 36 G. Metcalfe, N. Olivetti, and D. M. Gabbay. Goal-Directed Calculi for Gdel-Dummett Logics. In Proc. of CSL 2003 (Computer Science Logic), volume 2803 of LNCS, pages 413-426, Springer, 2003.

- 37 N. Olivetti and G. Pozzato. CondLean. A Theorem Prover for Conditional Logics. In Proc. of TABLEAUX 2003 (Automated Reasoning with Analytic Tableaux and Related Methods), volume 2796 of LNAI. pages 264-270, Springer, 2003.
- 38 G. Metcalfe, N. Olivetti, and D. M. Gabbay. Goal-directed proof-methods for Lukasiewicz logic, In Proc. of CSL 2004 (Computer Science Logic), volume 3210 of LNCS, pages 85-99, Springer, 2004.
- 39 N. Olivetti, G. L. Pozzato. CondLean 3.0 : Improving CondLean for Stronger Conditional Logics. In : TABLEAUX '05 : Automated Reasoning with Analytic Tableaux and Related Methods, vol. 3702 of LNCS, pages 328-33, Springer, 2005.
- 40 L. Giordano, V. Gliozzi, N. Olivetti, G. L. Pozzato. Analytic tableaux for KLM preferential and cumulative logics. In : Proc. of the 12th Conf on Logic for Programming Artificial Intelligence and Reasoning (LPAR 2005), vol. 3835 of LNCS, pages 666-681, Springer, 2005.
- 41 L. Giordano, V. Gliozzi, N. Olivetti, G. Pozzato. Analytic Tableau Calculi for KLM Rational Logic R. In : Proc. of the 10th European Conference on Logics in Artificial Intelligence (JELIA06), to appear, 2006.

### **Conférences Internationales sans actes publiés (Conference papers without published proceedings)**

- 42 N. Olivetti and L. Terracini. A logic for negation as failure. In *Proc. ICLP91 Workshop on Logic Programming Semantics and Non-Classical Logics*, INRIA Rocquencourt, 1991.
- 43 D.M. Gabbay, L.Giordano, A. Martelli, and N. Olivetti. Hypothetical updates and inconsistency in logic programming. In *Proc. ECAI'94 Workshop on Logic and Change*, Amsterdam, 1994.
- 44 D. Gabbay and N.Olivetti. Goal-directed proof-procedures for intermediate logics. In *Proc. of LD'98 First International Workshop on Labelled Deduction*, Freiburg, 1998.
- 45 L. Giordano, V.Gliozzi, N. Olivetti, C. Schwind. Extensions of Tableau calculi for preference-based conditional logics. In : Proceedings of the fourth Workshop on Methods for Modalities (M4M 2005), Berlin, 2005.
- 46 N. Olivetti, G. Pozzato. KLMLean 1.0, a Theorem Prover for Logics of Default Reasoning. In : Proceedings of the fourth Workshop on Methods for Modalities (M4M 2005), Berlin, 2005.

### **En preparation (In preparation)**

- 47 G. Metcalfe, N. Olivetti, and D. M. Gabbay, Proof-Theory for Fuzzy Logic, book draft, King's College Research Studies Press, UK, en preparation, 2006.