

REFERENCES

- [Abrusci, 1991] V. M. Abrusci. Phase semantics and sequent calculus for pure non-commutative classical linear propositional logic. *Journal of Symbolic Logic*, 56:1403–1451, 1991.
- [Adams, 1975] E. W. Adams. *The Logic of Conditionals*. Reidel, Dordrecht, 1975.
- [Alechina, 1995] N. Alechina. *Modal Quantifiers*. PhD thesis, Institute for Logic, Language and Information, University of Amsterdam, 1995.
- [Alechina and van Lambalgen, 1996] N. Alechina and M. van Lambalgen. Generalised quantification as substructural logic. *Journal of Symbolic Logic*, 61:1006–1044, 1996.
- [Alexiev, 1994] V. Alexiev. Applications of linear logic to computation: An overview. *Bulletin of the IGPL*, 2(1):77–107, 1994.
- [Allwein and Dunn, 1993] G. Allwein and J. M. Dunn. Kripke models for linear logic. *the Journal of Symbolic Logic*, 58:514–545, 1993.
- [Amati and Pirri, 1993] G. Amati and F. Pirri. A uniform tableaux method for intuitionistic modal logics I. Manuscript, 1993.
- [Anderson and Belnap Jr, 1975] A. R. Anderson and N. D. Belnap Jr. *Entailment: the Logic of Relevance and Necessity*, Vol. 1. Princeton University Press, Princeton, 1975.
- [Andréka et al., 1995] H. Andréka, J. van Benthem, and I. Németi. Back and forth between modal logic and classical logic. *Logic Journal of the IGPL*, 3:685–720, 1995.
- [Åqvist, 1979] L. Åqvist. A conjectured axiomatization of two-dimensional reichenbachian tense logic. *Journal of Philosophical Logic*, 8:1–45, 1979.
- [Apt and Turini, 1995] K. R. Apt and F. Turini, editors. *Meta-Logics and Logic Programming*. MIT Press, Cambridge, MA, 1995.
- [Arnold, 1994] A. Arnold. *Finite Transition Systems*, Prentice Hall, Englewood Cliffs, NJ, 1994.
- [Artosi et al., 1996] A. Artosi, Guido Governatori, and Giovanni Sartor. Towards a computational treatment of deontic defeasibility. In Mark Brown and José Carmo, editors, *Deontic Logic Agency and Normative Systems*, Workshop on Computing, pages 27–46, Springer-Verlag, Berlin, 1996.
- [Artosi et al., 1997] A. Artosi, P. Benassi, G. Governatori and A. Rotolo. Shakespearian modal logic: a labelled treatment of modal identity. In M. Kracht, M. de Rijke, H. Wansing, and M. Zakharyaschev, editors, *Advances in Modal Logic*, SILLI. CSLI Publications, Stanford, 1997.
- [Avron, 1988] A. Avron. The semantics and proof theory of linear logic. *Theoretical Computer Science*, 57:161–184, 1988.
- [Baader and Schulz, 1994] F. Baader and K. Schulz. Combination of constraints solving techniques, and algebraic point of view. Technical Report CIS-Rep-94-75, University of Munich, 1994. A short version has appeared in *Proc. RTA-95*, Lecture Notes in Computer Science 914, pp. 352–366, Springer-Verlag, Berlin, 1995.

- [Baader and Schulz, 1995a] F. Baader and K. Schulz. Combination of constraint solvers for free and quasi-free structures. Technical Report CIS-Rep-95-120, University of Munich, 1995.
- [Baader and Schulz, 1995b] F. Baader and K. Schulz. On the combination of symbolic constraints, solution domains and constraint solvers. *Proc. CP-95*. Lecture Notes in Computer Science, 976, Springer-Verlag, Berlin, 1995.
- [Baldoni *et al.*, 1993] M. Baldoni, L. Giordano and A. Martelli. A multimodal logic to define modules in logic programming. In D. Miller, editor, *Proceedings, International Logic Programming Symposium (ILPS), Vancouver, Canada*, pages 473–487. MIT Press, Cambridge, MA, 1993.
- [Barwise and Cooper, 1981] J. Barwise and R. Cooper. Generalized quantifiers and natural language. *Linguistics and Philosophy*, 4:159–219, 1981.
- [Beckert, 1998] B. Beckert. Semantic tableaux with equality. *Journal of Logic and Computation*, 1998. To appear.
- [Beckert *et al.*, 1993] B. Beckert, R. Hähnle and P. H. Schmitt. The even more liberalized δ -rule in free variable semantic tableaux. In G. Gottlob, A. Leitsch, and D. Mundici, editors, *Proceedings, 3rd Kurt Gödel Colloquium (KGC), Brno, Czech Republic*, LNCS 713, pages 108–119. Springer-Verlag, Berlin, 1993.
- [Beckert and Posegga, 1995] B. Beckert and J. Posegga. leanTAP: Lean tableau-based deduction. *Journal of Automated Reasoning*, 15(3):339–358, 1995.
- [Beckert and Pape, 1996] B. Beckert and C. Pape. Incremental theory reasoning methods for semantic tableaux. In P. Miglioli, U. Moscato, D. Mundici, and M. Ornaghi, editors, *Proceedings, 5th Workshop on Theorem Proving with Analytic Tableaux and Related Methods, Terrasini, Palermo, Italy*, LNCS 1071, pages 93–109. Springer-Verlag, Berlin, 1996.
- [Beckert and Ahrendt, 1997] B. Beckert and W. Ahrendt. An improved δ -rule for ground first-order tableaux. Draft. University of Karlsruhe, Institute for Logic, Complexity and Deduction Systems, Karlsruhe, Germany, 1997.
- [Bencivenga, 1986] E. Bencivenga. Free logic. In D. M. Gabbay and F. Guenther, editors, *Handbook of Philosophical Logic*, Vol. 3. Kluwer, Dordrecht, 1986.
- [Blackburn, 1993] P. Blackburn. Modal logic and attribute value structures. In M. De Rijke, editor, *Diamonds and Defaults: Studies in Pure and Applied Intensional Logic*. Kluwer Academic Publishers, Dordrecht, Synthese Library, 229:19–65, 1993.
- [Blackburn and de Rijke, 1995] P. Blackburn and M. de Rijke. Why combine logics? Technical Report CS-R9533, CWI, Amsterdam, 1995. To appear in special issue of *Studia Logica*.
- [Blackburn and de Rijke, To appear] P. Blackburn and M. de Rijke. Zooming in, zooming out. *Journal of Logic, Language and Information*, To appear.
- [Bolc and Borowik, 1992] L. Bolc and P. Borowik. *Many-valued Logics*, Vol. 1. Springer-Verlag, Berlin, 1992.
- [Božić and Došen, 1984] M. Božić and K. Došen. Models for normal intuitionistic modal logics. *Studia Logica*, 43:217–245, 1984.

- [Bowen and Kowalski, 1982] K. Bowen and R. Kowalski. Amalgamating language and metalanguage in logic programming. In K. Clark, editor, *Logic Programming*. Academic Press, London, 1982.
- [Broda *et al.*, 1998] K. Broda, M. D'Agostino and A. Russo. Transformation methods in LDS. In Hans Jürgen Ohlbach and Uwe Reyle, editors, *Logic, Language and Reasoning. Essays in Honor of Dov Gabbay*. Kluwer Academic Publishers, Dordrecht, 1998.
- [Brogi *et al.*, 1992] A. Brogi, P. Mancarella, D. Pedreschi and F. Turini. Meta for modularizing logic programming. In A. Pettorossi, editor, *Proceedings, Third International Workshop on Meta-Programming in Logic (META), Uppsala, Sweden, LNCS 649*, pages 105–119. Springer-Verlag, Berlin, 1992.
- [Büchi, 1962] J. R. Büchi. On a decision method in restricted second order arithmetic. In *Logic, Methodology, and Philosophy of Science. Proc. 1960 Intern. Congress*, pages 1–11. Stanford University Press, Stanford, CA, 1962.
- [Bull and Segerberg, 1984] R. Bull and K. Segerberg. Basic modal logic. In Dov Gabbay and Franz Guenthner, editors, *Handbook of Philosophical Logic*, Vol. II, Chapter II.I, pages 1–88. Kluwer Academic Publishers, Dordrecht, 1984.
- [Bull, 1965] R. A. Bull. A modal extension of intuitionist logic. *Notre Dame Journal of Formal Logic*, 6, 1965.
- [Burgess and Gurevich, 1985] J. P. Burgess and Y. Gurevich. The decision problem for linear logic. *Notre Dame Journal of Formal Logic*, 26:566–582, 1985.
- [Burgess, 1981] J. P. Burgess. Quick completeness proofs for some logics of conditionals. *Notre Dame Journal of Formal Logic*, 22:76–84, 1981.
- [Burgess, 1982] J. P. Burgess. Axioms for tense logic i: “since” and “until”. *Notre Dame Journal of Formal Logic*, 23:367–374, 1982.
- [Burgess, 1984] J. P. Burgess. Basic tense logic. In D. M. Gabbay and F. Guenthner, editors, *Handbook of Philosophical Logic*, Vol. II, pages 89–133. D. Reidel Publishing Company, Dordrecht, 1984.
- [Buvač and Mason, 1995] S. Buvač and I. A. Mason. Metamathematics of contexts. *Fundamenta Informatica*, 23, 1995.
- [Buvač, 1996] S. Buvač. Logic of context. In *Proceedings of the 13th AAAI Conference*, 1996.
- [Chagrov and Shehtman, 1995] A. Chagrov and V. Shehtman. Algorithmic aspects of tense logics In: *Proceedings of Computer Science Logic '94*, ed. by L. Pacholski and J. Tiuryn. Lecture Notes in Computer Science, Vol. 933, Springer-Verlag, Berlin, 1995.
- [Chen, 1987] W. Chen. A theory of modules based on second order logic. In *Proceedings, Symposium on Logic Programming, San Francisco, USA*. IEEE Press, 1987.
- [Clarke and Gabbay, 1988] M. R. B. Clarke and D. M. Gabbay. An intuitionistic basis for non monotonic reasoning. In *Non Standard Logics for Automated Reasoning*, P. Smets, A. Mamdani, D. Dubois and H. Prade, eds. pp. 163–178. Academic Press, 1988.
- [Crocco *et al.*, 1995] G. Crocco, L. Fariñas del Cerro and A. Herzog. Introduction. In G. Crocco, L. Fariñas del Cerro, and A. Herzog, editors, *Conditionals: From Philosophy to Computer Science*, pages 1–12. Oxford University Press, 1995.

- [D'Agostino and Gabbay, 1994] M. D'Agostino and D. M. Gabbay. A generalization of analytic deduction via labelled deductive systems. Part I: Basic substructural logics. *Journal of Automated Reasoning*, 13:243–281, 1994.
- [D'Agostino and Gabbay, 1996a] M. D'Agostino and D. M. Gabbay. Fibring labelled tableaux for substructural logics, 1996. To appear Tableaux 96 conference.
- [D'Agostino and Gabbay, 1996b] M. D'Agostino and D. M. Gabbay. Fibred tableaux for multi-implication logics. In P. Miglioli, U. Moscato, D. Mundici, and M. Ornaghi, editors, *TABLEAUX '96. Proceedings of the 5th International Workshop on Theorem Proving with Analytic Tableaux and Related Methods*, Vol. 1071 of *Lecture Notes in Artificial Intelligence*, pages 1–35. Springer-Verlag, Berlin, 1996.
- [D'Agostino and Mondadori, 1994] M. D'Agostino and M. Mondadori. The taming of the cut. *Journal of Logic and Computation*, 4:285–319, 1994.
- [D'Agostino et al., 1997] M. D'Agostino, D. M. Gabbay, and A. Russo. Grafting modalities onto substructural implication systems. *Studia Logica*, 59:65–102, 1997.
- [D'Agostino et al., 1998] M. D'Agostino, D. M. Gabbay, R. Hähnle and J. Posegga, editors. *Handbook of Tableau Methods*. Kluwer, Dordrecht, 1998. To appear.
- [de Rijke, 1993–94] M. De Rijke. *Extending modal logic*. Ph.D.Thesis. ILLC Dissertation Series. University of Amsterdam, (1993–94).
- [Delgrande, 1988] J. P. Delgrande. An approach to default reasoning based on a first order conditional logic. *Artificial Intelligence*, 36:63–90, 1988.
- [Dörre et al., 1996] J. Dörre, D. M. Gabbay, and E. König. Fibred semantics for feature based grammar logics. *Journal of Logic, Language and Information*, 5:387–422, 1996.
- [Došen, 1985] K. Došen. Models for stronger normal intuitionistic modal logics. *Studia Logica*, 44:39–70, 1985.
- [Došen, 1988] K. Došen. Sequent systems and groupoid models I. *Studia Logica*, 47:353–385, 1988.
- [Došen, 1989] K. Došen. Sequent systems and groupoid models II. *Studia Logica*, 48:41–65, 1989.
- [Došen, 1993] K. Došen. A historical introduction to substructural logics. In P. Schroeder Heister and Kosta Došen, editors, *Substructural Logics*, pages 1–31. Oxford University Press, 1993.
- [Dunn, 1986] M. Dunn. Relevance logic and entailment. In D. M. Gabbay and F. Guenther, editors, *Handbook of Philosophical Logic*, Vol. III, chapter 3, pages 117–224. Kluwer Academic Publishers, Dordrecht, 1986.
- [Ewald, 1986] W. B. Ewald. Intuitionistic tense and modal logic. *Journal of Symbolic Logic*, 51:166–179, 1986.
- [Fagin et al., 1990] R. Fagin, J. Y. Halpern and M. Y. Vardi. A nonstandard approach to the logical omniscience problem. In R. Parikh, editor, *Reasoning About Knowledge, TARK 1990*, pages 41–55. Morgan Kaufmann, 1990.
- [Farinas del Cerro and Herzog, 1992] L. Farinas del Cerro and A. Herzog. Metaprogramming through intensional deduction: Some examples. In A. Pettorossi, editor, *Proceedings, Third International Workshop on Meta-Programming in Logic (META), Uppsala, Sweden*, LNCS 649, pages 11–25. Springer-Verlag, Berlin, 1992.

- [Fariñas del Cerro *et al.*, 1994] L. Fariñas del Cerro, A. Herzig, and J. Lang. From ordering based nonmonotonic reasoning to conditional logics. *Artificial Intelligence*, 66:375–393, 1994.
- [Fariñas del Cerro and Herzig, 1996] L. Fariñas del Cerro and A. Herzig. Combining classical and intuitionistic logic, or: intuitionistic implication as a conditional. In *Frontiers in Combining Systems (Proc. Int. Workshop FroCos '96)*. F. Baader and K. Schulz, eds. pp. 93–102. Kluwer Academic Publishers, Dordrecht, 1996.
- [Fine, 1974a] K. Fine. An ascending chain of S4 logics. *Theoria*, 40:110–116, 1974.
- [Fine, 1974b] K. Fine. Logics containing K4. I. *Journal of Symbolic Logic*, 39:31–42, 1974.
- [Fine, 1975] K. Fine. Normal forms in modal logic. *Notre Dame Journal of Formal Logic*, 16:(2)229–237, 1975.
- [Fine and Schurz, 1991] K. Fine and G. Schurz. Transfer theorems for stratified multimodal logics, 1991. Unpublished manuscript.
- [Fine and Schurz, 1997] K. Fine and G. Schurz. Transfer theorems for multimodal logics. In *Logic and Reality, Proceedings Arthur Prior Memorial Conference*, Oxford University Press, 1997, pp. 169–214.
- [Finger, 1992] M. Finger. Handling database updates in two-dimensional temporal logic. *Journal of Applied Non-Classical Logic*, 2:201–224, 1992.
- [Finger, 1994] M. Finger. *Changing the Past: Database Applications of Two-dimensional Temporal Logics*. PhD thesis, Imperial College, London, Department of Computing, 1994.
- [Finger and Gabbay, 1992] M. Finger and D. M. Gabbay. Adding a temporal dimension to a logic. *Journal of Logic, Language and Information*, 1:203–233, 1992.
- [Finger and Gabbay, 1996] M. Finger and D. M. Gabbay. Combining temporal logic systems. *Notre Dame Journal of Formal Logic*, 37:204–232, 1996.
- [Fischer-Servi, 1977] G. Fischer-Servi. On modal logic with an intuitionistic base. *Studia Logica*, 36:141–149, 1977.
- [Fischer-Servi, 1980] G. Fischer-Servi. Semantics for a class of intuitionistic modal calculi. In M. L. Dalla Chiara, editor, *Italian Studies in the Philosophy of Science*, pages 59–71. D. Reidel, Dordrecht, 1980.
- [Fischer-Servi, 1984] G. Fischer-Servi. Axiomatizations for some intuitionistic modal logics. *Rend. Sem. Mat. Univ. Politecn. Torino*, 42:179–194, 1984.
- [Fitch, 1948] F. B. Fitch. Intuitionistic modal logic with quantifiers. *Portugalia Mathematica*, 7:113–118, 1948.
- [Fitting, 1969] M. Fitting. Logics with several modal operators. *Theoria*, 35:259–266, 1969.
- [Fitting, 1983] M. Fitting. *Proof Methods for Modal and Intuitionistic Logics*. D. Reidel, Dordrecht, 1983.
- [Fitting, 1991] M. Fitting. Many valued modal logics. *Fundamenta Informatica*, 15:235–254, 1991.
- [Fitting, 1992] M. Fitting. Many valued modal logics II. *Fundamenta Informaticae*, 17:55–73, 1992.

- [Fitting, 1994] M. Fitting. Tableaux for many valued modal logic. Technical Report Jan 25, 1994.
- [Fitting, 1996] M. Fitting. *First-Order Logic and Automated Theorem Proving*. Springer, second edition, 1996.
- [Font, 1986] J. M. Font. Modality and possibility in some intuitionistic modal logic. *Notre Dame Journal of Formal Logic*, 27:533–546, 1986.
- [Gabbay, 1972] D. M Gabbay. General filtration method for modal logic. *Journal of Philos. Logic*, 1:29–34, 1972.
- [Gabbay, 1976] D. M. Gabbay. *Investigations in Modal and Tense Logics*. D. Reidel, Dordrecht, 1976.
- [Gabbay, 1981a] D. M. Gabbay. Expressive functional completeness in tense logic. In U. Monnich, editor, *Aspects of Philosophical Logic*, pages 91–117. D. Reidel, Dordrecht, 1981.
- [Gabbay, 1981b] D. M. Gabbay. An irreflexivity lemma. In U. Monnich, editor, *Aspects of Philosophical Logic*, pages 67–89. D. Reidel, Dordrecht, 1981.
- [Gabbay, 1981c] D. M. Gabbay. *Semantical Investigations in Heyting's Predicate Logic*. D. Reidel, Dordrecht, 1981.
- [Gabbay, 1982] D. M. Gabbay. Intuitionistic basis for non-monotonic logic. In *Proceedings of CADE-6*, pages 260–273. LNCS 138, Springer-Verlag, Berlin, 1982.
- [Gabbay, 1985a] D. M. Gabbay. Theoretical foundations for non-monotonic reasoning in expert systems. In K. R. Apt, editor, *Proceedings NATO Advanced Study Institute on Logics and Models of Concurrent Systems*, pages 439–457. Springer-Verlag, Berlin, 1985.
- [Gabbay, 1985b] D. M. Gabbay. N-Prolog: An extension of Prolog with hypothetical implication. II. Logical foundations, and negation as failure. *Journal of Logic Programming*, 4:251–283, 1985.
- [Gabbay, 1992] D. M. Gabbay. Metalevel in the object level: modal and temporal logic programming III. In L. Fariñas del Cerro and M. Pentonnen, eds. *Intensional Logics for Programming*, pp. 85–124. Oxford University Press, 1992.
- [Gabbay, 1993a] D. M. Gabbay. Fibred semantics and the combination of logics, Part 1. Modal and intuitionistic logics, 1993. Lectures given at *Logic Colloquium 1992*, Veszprém, Hungary, August 1992. A version of the notes is published as a Technical Report, by the University of Stuttgart, Sonderforschungsbereich 340, Azenbergstr 12, 70174 Stuttgart, Germany, No 36, 1993. To appear in *Journal of Symbolic Logic*.
- [Gabbay, 1993b] D. M. Gabbay. Labelled deductive systems, a position paper. In *Logic Colloquium 90*, pages 66–89. Lecture Notes in Logic, vol. 2, Springer-Verlag, Berlin, 1993.
- [Gabbay, 1994a] D. M. Gabbay. Classical vs non-classical logic. In *Handbook of Logic in AI*, Vol. 2, pages 349–489. Oxford University Press, 1994.
- [Gabbay, 1994b] D. M. Gabbay. Labelled deductive systems, part I. Technical report, First draft 1989. Preprint, Department of Computing, Imperial College, London, SW7 2BZ, UK. 2nd intermediate draft February 1991, 265 pp, published as CIS-Bericht-90-22, Centrum für Informations und Sprachverarbeitung, Universität München, Germany. Third intermediate draft, Max Planck Institute, Saarbrücken, Technical Report, MPI-

- I-94-223, 460 pp, 1994.
- [Gabbay, 1995a] D. M. Gabbay. Conditional implication and nonmonotonic consequence. In L. Fariñas del Cerro *et al.*, editors, *Views on Conditionals*, pages 347–369. Oxford University Press, 1995.
- [Gabbay, 1995b] D. M. Gabbay. Fibred semantics and the weaving of logics, part 2. In L. Csirmak, D. Gabbay, and M. de Rijke, editors, *Logic Colloquium 92, Veszprém, Hungary*, pages 95–113. SILLI/CUP, 1995.
- [Gabbay, 1995c] D. M. Gabbay. Fibred semantics and the weaving of logics, part 3: How to make your logic fuzzy. *LINZ Proceedings*, Kluwer, Dordrecht, 1998. To appear.
- [Gabbay, 1996a] D. M. Gabbay. Fibred semantics and the weaving of logics, part 4: Self fibring of predicate logics. Technical report, Imperial College, London, 1996.
- [Gabbay, 1996b] D. M. Gabbay. *Labelled Deductive Systems, Volume 1—Foundations*. Oxford University Press, 1996.
- [Gabbay, 1996c] D. M. Gabbay. An overview of fibred semantics and the combination of logics. In *Frontiers of Combining Systems*, K. Schultz and F. Baader, eds. pp. 1–56. Applied Logic Series, Kluwer Academic Publishers, Dordrecht, 1996.
- [Gabbay and Clarke, 1987] D. M. Gabbay and M. Clarke. An intuitionistic basis for non-monotonic reasoning. In P. Smets, editor, *Automated Reasoning for Non-standard Logic*, pages 163–179. Academic Press, 1987.
- [Gabbay and Nossum, 1996] D. M. Gabbay and R. Nossum. Labelling and fibring your context. Technical report, Imperial College, London, 1996.
- [Gabbay *et al.*, 1994] D. M. Gabbay, I. M. Hodkinson, and M. A. Reynolds. *Temporal Logic—Mathematical Foundations and Computational Aspects*. Oxford University Press, 1995.
- [Gabbay and Reyle, 1984] D. M. Gabbay and U. Reyle. N-Prolog: An extension of Prolog with hypothetical implication. I. *Journal of Logic Programming*, 4:319–355, 1984.
- [Gabbay *et al.*, 1995] D. Gabbay, L. Giordano, A. Martelli and N. Olivetti. Hypothetical updates, priority and inconsistency in a logic programming language. In V. Marek, A. Nerode, and M. Truszczyński, editors, *Proceedings, 3rd International Conference on Logic Programming and Non-monotonic Reasoning, Lexington/KY, USA, LNCS 928*, pages 203–216. Springer-Verlag, Berlin, 1995.
- [Gabbay and Shehtman, 1993] D. M. Gabbay and V. Shehtman. Undecidability of modal and intermediate first-order logics with two individual variables. *Journal of Symbolic Logic*, 58:(3)800–823, 1993.
- [Gabbay and Reyle, 1997] D. M. Gabbay and U. Reyle. Labelled resolution for classical and non-classical logics. *Studia Logica*, 59:179–216, 1997.
- [Gabbay and Reyle, forthcoming] D. M. Gabbay and U. Reyle. Fibred semantics for Natural Language. In preparation.
- [Gabbay and Shehtman, 1998] D. M. Gabbay and V. Shehtman. Products of modal logics, Part 1. *Logic Journal of the IGPL*, 6:73–146, 1998.
- [Gallier *et al.*, 1992] J. Gallier, P. Narendran, S. Raatz, and W. Snyder. Theorem proving using equational matings and rigid E-unification. *Journal of the ACM*, 39(2):377–

- 429, April 1992.
- [Garson, 1989] J. Garson. Modularity and relevant logic. *Notre Dame Journal of Formal Logic*, 30:207–223, 1989.
- [Ginsberg, 1986] M. L. Ginsberg. Counterfactuals. *Artificial Intelligence*, 30:35–79, 1986.
- [Giordano and Martelli, 1994] L. Giordano and A. Martelli. Structuring logic programs: A modal approach. *Journal of Logic Programming*, 21(2):59–94, 1994.
- [Giordano and Olivetti, 1994] L. Giordano and N. Olivetti. Combining negation as failure and embedded implication in logic programs. Draft, Università di Torino, Dipartimento di Informatica, 1994.
- [Giordano *et al.*, 1988] L. Giordano, A. Martelli, and G. Rossi. Local definitions with static scope rules in logic programming. In *Proceedings, International Conference on Fifth Generation Computer Systems, Tokyo, Japan*, Vol. 2, pages 389–396. Springer-Verlag, Berlin, 1988.
- [Giordano *et al.*, 1992] L. Giordano, A. Martelli, and G. Rossi. Extending horn clause logic with implication goals. *Theoretical Computer Science*, 95:43–74, 1992.
- [Girard, 1987] J.-Y. Girard. Linear logic. *Theoretical Computer Science*, 50:1–102, 1987.
- [Gargov and Goranko, 1993] G. Gargov and V. Goranko. Modal logic with names. *Journal of Philosophical Logic*, 22:607–636, 1993.
- [Goldblatt, 1987] R. Goldblatt. *Logics of Time and Computation*. CSLI Lecture notes 7, CSLI, Stanford, CA, 1987.
- [Goranko, 1994] V. Goranko. Temporal logic with reference pointers. In *Temporal Logic* (Bonn, 1994), pp. 133–148. Lecture Notes in Comput. Sci., 827. Springer-Verlag, Berlin, 1994.
- [Goranko, 1996] V. Goranko. Hierarchies of modal and temporal logics with reference pointers. *Journal of Logic Language and Information*, 5:(1)1–24, 1996.
- [Goranko and Passy, 1992] V. Goranko and S. Passy. Using the universal modality: Gains and questions. *Journal of Logic and Computation*, 2:5–30, 1992.
- [Goré, 1998] R. Goré. Tableau methods for modal and temporal logics. In Marcello D’Agostino, Dov Gabbay, Reiner Hähnle, and Joachim Posegga, editors, *Handbook of Tableau Methods*, chapter 7. Kluwer, Dordrecht, 1998. In press.
- [Gottwald, 1993] S. Gottwald. *Fuzzy Sets and Fuzzy Logic*. Vieweg, 1993.
- [Governatori, 1995] G. Governatori. Labelled tableaux for multi-modal logics. In *Theorem Proving with Analytic Tableaux and Related Methods*, Vol. 918 of *LNAI*, pages 79–94. Springer-Verlag, Berlin, 1995.
- [Governatori, 1996] G. Governatori. Labelling ideality and subideality. In Dov M. Gabbay and Hans Jürgen Ohlbach, editors, *Practical Reasoning*, Vol. 1085 of *LNAI*, pages 291–304. Springer-Verlag, Berlin, 1996.
- [Governatori, 1997] G. Governatori. *Un modello formale per il ragionamento giuridico*. PhD thesis, University of Bologna, 1997.
- [Halpern and Shoham, 1986] J. Y. Halpern and Y. Shoham. A propositional modal logic of time intervals. In *Proceedings of the Symposium on Logics in Computer Science – LICS86*, pages 279–292, 1986.

- [Henkin *et al.*, 1985] H. Henkin, J. D. Monk and A. Tarski. *Cylindric Algebras, Part 2*. North Holland, Amsterdam, 1985.
- [Hill and Lloyd, 1994] P. Hill and J. Lloyd. *The Gödel Programming Language*. MIT Press, Cambridge, MA, 1994.
- [Hughes and Cresswell, 1996] G. Hughes and M. Cresswell. *A New Introduction to Modal Logic*, Routledge, 1996.
- [Jones, 1993] A. J. I. Jones. Towards a formal theory of defeasible deontic logic. *Annals of Mathematics and Artificial Intelligence*, 9:151–166, 1993.
- [Jones and Pörn, 1985] A. J. I. Jones and I. Pörn. Ideality, subideality and denontic logic. *Synthese*, 65:275–290, 1985.
- [Jones and Pörn, 1986] A. J. I. Jones and I. Pörn. ‘Ought’ and ‘must’. *Synthese*, 66:89–93, 1986.
- [Kamp, 1971] H. Kamp. Formal properties of now. *Theoria*, 35:227–273, 1971.
- [Karlsbeek, 1995] M. Karlsbeek. *Metalogics for Logic Programming*. PhD thesis, Institute for Logic, Language and Information, University of Amsterdam, 1995.
- [Katsuno and Sato, 1995] H. Katsuno and K. Sato. A unified view of consequence relation, belief revision and conditional logic. In G. Crocco, L. Fariñas del Cerro, and A. Herzig, editors, *Conditionals: From Philosophy to Computer Science*, pages 33–66. Oxford University Press, 1995.
- [Kracht and Wolter, 1991] M. Kracht and F. Wolter. Properties of independently axiomatizable bimodal logics. *Journal of Symbolic Logic*, 56:1469–1485, 1991.
- [Kraus *et al.*, 1990] S. Kraus, D. Lehmann, and M. Magidor. Nonmonotonic reasoning, preferential models and cumulative logics. *Artificial Intelligence*, 44:167–208, 1990.
- [Kurosh, 1963] A. G. Kurosh. *Lectures on General Algebra*. Chelsea, 1963.
- [Karlsbeek and Jiang, 1995] M. Karlsbeek and Y. Jiang. A vademecum of ambivalent logic. In [Apt and Turini, 1995], pp. 27–58.
- [Lakemeyer, 1987] G. Lakemeyer. Tractable meta-reasoning in propositional logics of belief. In *IJCAI-87*, pages 402–408, 1987.
- [Lambert and van Fraassen, 1972] K. Lambert and Bas C. van Fraassen. *Derivation and Counterexample*. Dickinson Publishing Co, 1972.
- [Levesque, 1984] H. Levesque. A logic of implicit and explicit belief. In *AAI-84*, pages 198–202, 1984.
- [Link, 1984] G. Link. 1984. Plural. In D. Wunderlich and A. von Stechow, editors. *Semantik*. de Gruyter, Berlin, 1991
- [MacCaull, 1996] W. MacCaull. Relational semantics and a relational proof system for full Lambek calculus. Technical report, Dept. Mathematics and Computing Sciences, St. Francis Xavier University, 1996.
- [McDermott and Doyle, 1980] D. McDermott and J. Doyle. Non-monotonic logic I. *Artificial Intelligence*, 13, 41–72, 1980.
- [McCarthy, 1987] J. McCarthy. Generality in artificial intelligence. *Communications of the ACM*, 30:1030–1035, 1987.
- [McCarthy, 1996] J. McCarthy. A logical AI approach to context. Technical report, Stanford University, 1996.

- [McCarthy and Buvač, 1994] J. McCarthy and S. Buvač. Formalising context, (expanded notes). Technical Report STAN-CS-TN-94-13, Stanford University, 1994.
- [Maddux, 1980] R. Maddux. The equational theory of CA3 is undecidable. *Journal of Symbolic Logic*, 45:311–315, 1980.
- [Makinson, 1989] D. Makinson. General theory of cumulative inference. In M. Reinfrank, editor, *Proceedings Second International Workshop on Non-Monotonic Reasoning*. Lecture Notes in Computer Science, Springer-Verlag, Berlin, 1989.
- [Maksimova, 1979] L. Maksimova. A classification of modal logics. *Algebra i Logika*, 18:(3)328–340, 385–386, 1979.
- [Mancarella and Pedreschi, 1988] P. Mancarella and D. Pedreschi. An algebra of logic programs. In R. Kowalski, editor, *Proceedings, Fifth International Conference on Logic Programming, Seattle, USA*, pages 1006–1023. MIT Press, Cambridge, MA, 1988.
- [McCarty, 1988a] T. McCarty. Clausal intuitionistic logic. I. Fixed-point semantics. *Journal of Logic Programming*, 5(1):1–31, 1988.
- [McCarty, 1988b] T. McCarty. Clausal intuitionistic logic. II. Tableau proof procedures. *Journal of Logic Programming*, 5(2):93–132, 1988.
- [Marx, 1997a] M. Marx. Complexity of modal logics of relations. University of Amsterdam, Report ML-97-02, 1997.
- [Marx, 1997b] M. Marx. Complexity of products of modal logics. Imperial College, 1997.
- [Marx and Venema, 1997] M. Marx and Y. Venema. *Multi-dimensional Modal Logic*, Applied Logic Series, Vol. 4. Kluwer Academic Publishers, Dordrecht, 1997.
- [Meyer and Mares, 1993] R. E. Meyer and E. D. Mares. Semantics of entailment 0. In K. Došen and P. Schroeder-Heister, editors, *Substructural Logics*, pages 239–258. Oxford University Press, 1993.
- [Miller, 1986] D. Miller. A theory of models for logic programming. In *Proceedings, Symposium on Logic Programming, Salt Lake City, USA*, pages 106–114. IEEE Press, 1986.
- [Moscowitz and Shapiro, 1991] Y. Moscowitz and E. Shapiro. Lexical logic programs. In K. Furukawa, editor, *Proceedings, Eighth International Conference on Logic Programming, Paris, France*, pages 349–363. MIT Press, Cambridge, MA, 1991.
- [Nait Abdallah, 1986] M. Nait Abdallah. Ions and local definition in logic programming. In B. Monien, editor, *Proceedings, Third Annual Symposium on Theoretical Aspects of Computer Science (STACS), Orsay, France*, LNCS 210, pages 60–72. Springer-Verlag, Berlin, 1986.
- [Németi, 1995] I. Németi. Decidable versions of first-order logic and cylindric-relativised set algebras. In L. Csirmaz, D. M. Gabbay, and M. de Rijke, editors, *Logic Colloquium 92*, pages 177–241. CSLI–FOLLI publication, 1995.
- [Németi, 1996] I. Németi. A fine structure analysis of first order logic. In *Arrow Logic and Multimodal Logic*, M. Marx, L. Pólos and M. Masuch, eds. pp. 221–147. FOLLI–CSLI Publications, 1996.
- [Nute, 1984] D. Nute. Conditional logic. In D. Gabbay and F. Guenther, editors, *Handbook of Philosophical Logic*, Vol. 2: Extensions of Classical Logic, pages 387–

440. Kluwer, Dordrecht, 1984.
- [Ohlbach, 1991] H. J. Ohlbach. Semantic based translation methods for modal logic. *Journal of Logic and Computation*, 1:691–746, 1991.
- [O’Keefe, 1985] R. O’Keefe. Towards an algebra for constructing logic programs. In *Proceedings, Symposium on Logic Programming, Boston, USA*, pages 152–160. IEEE Press, 1985.
- [Ono, 1977] H. Ono. On some intuitionistic modal logic. *Publications Research Institute of Mathematical Science*, 13:687–722, 1977.
- [Ono, 1987] H. Ono. Some problems in intermediate predicate logics. *Reports on Mathematical Logic*, 21:55–68, 1987.
- [Ono, 1993] H. Ono. Semantics for substructural logics. In Peter Schroeder-Heister, editor, *Substructural Logics*, pages 259–291. Oxford University Press, 1993.
- [Pearl and Geffner, 1988] J. Pearl and H. Geffner. Probabilistic semantics for a subset of default reasoning. Technical report, Computer Science Department, University of California, Los Angeles, 1988.
- [Pfälzgraf, 1991] J. Pfälzgraf. Logical fiberings and polycontextural systems. In Ph. Jorrand and J. Kelemen, editors, *Fundamentals of Artificial Intelligence Research*. LNCS 535, Springer-Verlag, 1991.
- [Pfälzgraf and Stokkermans, 1994] J. Pfälzgraf and K. Stokkermans. On robotics scenarios and modeling with fibered structures. In J. Pfälzgraf and D. Wang, editors, *Automated Practical Reasoning: Algebraic Approaches*. Texts and Monographs in Symbolic Computation, Springer-Verlag, Berlin, 1994.
- [Plotkin and Stirling, 1986] G. D. Plotkin and C. P. Stirling. A framework for intuitionistic modal logic. In J. Y. Halpern, editor, *Theoretical Aspects of Reasoning About Knowledge*, pages 399–406, 1986.
- [Prior, 1957] A. N. Prior. *Time and Modality*. Oxford University Press, 1957.
- [Rabin, 1969] M. O. Rabin. Decidability of second order theories and automata on infinite trees. *Transactions of the American Mathematical Society*, pages 595–629, 1969.
- [Reiter, 1980] R. Reiter. A logic for default reasoning. *Artificial Intelligence*, 13:81–132, 1980.
- [Reynolds, 1992] M. A. Reynolds. An axiomatisation for until and since over the reals without the irr rule. *Studia Logica*, 51:165–194, 1992.
- [Reynolds, 1996] M. Reynolds. A decidable temporal logic of parallelism. Manuscript. December. 1996.
- [Reynolds, 1997] M. Reynolds. Undecidability of the rectangular modal product. Manuscript, 1997 (submitted).
- [Sahlqvist, 1975] H. Sahlqvist. Completeness and correspondence in the first and second order semantics for modal logic. *Studies in Logic and Found. Math.*, 82:110–143, 1975.
- [Sambin, 1993] G. Sambin. The semantics of pretopologies. In Peter Schroeder-Heister, editor, *Substructural Logics*, pages 293–307. Oxford University Press, 1993.
- [Santos, 1968] E. Santos. Maximin automata. *Information and Control*, 13:363–377, 1968.

- [Segerberg, 1970] K. Segerberg. Modal logics with linear alternative relations. *Theoria*, 36:301–322, 1970.
- [Segerberg, 1973] K. Segerberg. Two-dimensional modal logic. *Journal of Philosophical Logic*, 2:77–96, 1973.
- [Shehtman, 1987] V. Shehtman. On some two-dimensional modal logics. In *8th International Congress on Logic, Methodology, and Philosophy of Science, Moscow, Abstracts*, 1:326–330, 1987.
- [Shehtman, 1978] V. Shehtman. Two-dimensional modal logics. *Math. Zametki*, 5:759–772, (In Russian), 1978.
- [Shehtman, 1993] V. Shehtman. A logic with progressive tenses. In M. De Rijke, editor, *Diamonds and Defaults: Studies in Pure and Applied Intensional Logic*. pp. 255–285, Kluwer Academic Publishers, Dordrecht, 1993.
- [Shehtman and Skvortsov, 1990] V. Shehtman and D. Skvortsov. Semantics of non-classical first order predicate logics. In P. Petkov, editor, *Proceedings of Summer School and Conference on Mathematical Logic held Sept. 13–23 in Chaika, Bulgaria*, Plenum Press, pp. 105–116, 1990.
- [Shoham, 1987] Y. Shoham. A semantical approach to nonmonotonic logics. In *Proceedings Logics in Computer Science*, pages 275–279. Ithaca, NY, 1987.
- [Shoham, 1988] Y. Shoham. *Reasoning About Change-80*. MIT Press, Cambridge, MA, 1988.
- [Simpson, 1993] A. K. Simpson. *The Proof Theory and Semantics of Intuitionistic Modal Logic*. PhD thesis, University of Edinburgh, 1993.
- [Smullyan, 1995] R. M. Smullyan. *First-Order Logic*. Dover Publications, New York, second corrected edition, 1995. First published in 1968 by Springer.
- [Spaan, 1993] E. Spaan. *Complexity of Modal Logics*. PhD thesis, Free University of Amsterdam, 1993.
- [Suzuki, 1988] N. Y. Suzuki. An algebraic approach to intuitionistic modal logics in connection with intermediate predicate logics. *Studia Logica*, 48:141–155, 1988.
- [Suzuki, 1990] N. Y. Suzuki. Kripke bundles for intermediate predicate logics and Kripke frames for intuitionistic modal logics. *Studia Logica*, 49:289–306, 1990.
- [Thiele, 1993] H. Thiele. On the definition of modal operators in fuzzy logic. In *Proceedings of the 23rd International Symposium on Multiple Valued Logic*, pages 62–67. IEEE Computer Society Press, 1993.
- [Thomason, 1980] S. K. Thomason. Independent propositional modal logics. *Studia Logica*, 39:143–144, 1980.
- [Urquhart, 1972] A. Urquhart. Semantics for relevant logic. *Journal of Symbolic Logic*, 37:159–170, 1972.
- [van Benthem, 1983] J. van Benthem. *Modal Logic and Classical Logic*. Bibliopolis, 1983.
- [van Lambalgen, 1996] M. van Lambalgen. Natural deduction for generalised quantifiers. In J. van der Does and J. van Eijck, editors, *Quantifiers, Logic and Language*, pages 225–236. CSLI Lecture Notes, 1996.
- [Veltman, 1986] F. Veltman. *Logics for Conditionals*. PhD thesis, Filosofisch Instituut, Universiteit van Amsterdam, 1986.

- [Venema, 1990] Y. Venema. Expressiveness and completeness of an interval tense logic. *Notre Dame Journal of Formal Logic*, 31: 1990.
- [Wansing, 1993] H. Wansing. *The Logic of Information Structures*. Number 681 in Lecture Notes in Artificial Intelligence. Springer-Verlag, Berlin, 1993.
- [Wijesekera, 1990] D. Wijesekera. Constructive modal logic 1. *Annals of Pure and Applied Logic*, 50:271–301, 1990.
- [Wolter, 1994] F. Wolter. Solution to a problem of Goranko and Passy. *Journal of Logic and Computation*, 4:21–22, 1994.
- [Xu, 1988] M. Xu. On some U, S -tense logics. *Journal of Philosophical Logic*, 17:181–202, 1988.