Chronological Publications List

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Dov's Version

Published or Accepted for Publication or Drafts
(Books are indicated in Larger Red Bold Italic font)

1. *Investigations in Modal and Tense Logics with Applications*
   Synthese volume 92, D. Reidel, 1976. 321 pp,
   The main research thrust of this monograph is to present comprehensive methods for proving decidability and undecidability for modal and temporal systems. General theorems are proved on the one hand and new classification and semantical characterisations are given to many logics in order to show that they satisfy these general theorems. Counter examples are constructed to show the limitations of various methods. The book also lays the mathematical and conceptual foundations for non—classical logics.

2. *Semantical Investigations in Heyting's Intuitionistic Logic*
   Synthese volume 148. D. Reidel, 1981. 300 pp,
   This monograph uses semantical methods to study intuitionistic and various neighbouring systems. It develops their mathematical model theory and finite model property and studies their proof theory and interpolation properties. It further applies the methods of book 1, to obtain decidability and undecidability results for intuitionistic algebraic theories. Both research monographs are partially based on, and extend, some of the related research papers.
   Being typed – December 2001

3. Semantic Proof of the Craig Interpolation Theorem for Intuitionistic Logic and Extensions, Part I
   In *Proceedings of the 1969 Logic Colloquium in Manchester*, North-Holland Publishing Co, pp 391—401, 1969
   DovPapers/CollectedPapers/003-SPCIT-part1.tex

4. Semantic Proof of the Craig Interpolation Theorem for Intuitionistic Logic and Extensions, Part II
   In *Proceedings of the 1969 Logic Colloquium in Manchester*, North-Holland Publishing Co, pp 403—410, 1969
   The methods used to prove interpolation in these papers seem to be general enough to be applied in categorial context, as shown by Makkai 25 years later.
   DovPapers/CollectedPapers/004-SPCIT-part2.tex

5. The Decidability of the Kreisel—Putnam System
   Journal of Symbolic Logic, **35**, 431—437, 1970.

6. Selective Filtration in Modal Logics, Part I
    Theoria, **36**, 323—330, 1970.

7. Craig's Interpolation Theorem for Modal Logics
    In *Proceedings of Logic Conference*, London, W. Hodges, ed. Pp. 111—128. Springer, 1970.
    Anna typing – November 2001

8. Decidability Results in Non-Classical Logic III (Systems with Statability Operators)
    Israel Journal of Mathematics, **10**, 135—146, 1971.

9. A General Filtration Method for Modal Logics
    Journal of Philosophical Logic, **1**, 29—34, 1972.

10. On Decidable Finitely Axiomatizable Modal and Tense Logics without the Finite Model Property, Part I.
    Israel Journal of Mathematics, **10**, 478—495, 1971.

11. On Decidable Finitely Axiomatizable Modal and Tense Logics without the Finite Model Property, Part II.
    Israel Journal of Mathematics, **10**, 496—503, 1971.

12. Tense Systems with Discrete Moments of Time
    Journal of Philosophical Logic, **1**, 35—44, 1972.

13. Model Theory for Intuitionsitic logic
    Zeitschrift für Mathematische Logik und Grundlagen der Mathematik, **18**, 49—54, 1972.

14. Sufficient Conditions for the Undecidability of Intuitionistic Theories with Applications
    Journal of Symbolic Logic, **37**, 375—384, 1972.

15. Applications of Trees to Intermediate Logics I
    Journal of Symbolic Logic, **37**, 135—138, 1972.

16. Decidability of Some Intuitionistic Predicate Theories
    Journal of Symbolic Logic, **37**, 579—587, 1972.

17. Montague Type semantics for Modal Logics with Propositional Quantifiers
    Zeitschrift für Mathmatische Logik und Grundlagen der Mathematik, **17**, 245—249, 1971.

18. A Survey of Decidability Results for Modal Tense and Intermediate Logics

In *Proceedings of the Fourth International Congress on Logic, Methodology and Philosophy of Science*, P. Suppes *et al*., eds. Pp. 29—43. North—Holland Publishing Co, 1973.

19. A General Theory of the Conditional In Terms of a Ternary Operator

Theoria, 38, 97—105, 1972.
DovPapers/019.tex.

20. The Undecidability of Intuitionistic Theories of Algebraically Closed Fields and Real Closed

Journal of Symbolic Logic,38, 86—92, 1973.

21. Applications of Scott's Notion of Consequence to the Study of General Binary Intensional Connectives and Entailment

Journal of Symbolic Logic,2, 340—351, 1973.

22. Representation of the Montague Semantics as a Form of the Suppes Semantics with Applications to the Problem of the Introduction of the Passive Voice, the Tenses and Negation as Transformations

In *Approaches to Natural Language*, J. Hintikka*, et al.,* eds. Pp. 395—409. D. Reidel, 1973.

23. Sameness and Individuation

Journal of Philosophy,70, 513—526, 1973.
DovPapers/023.tex

24. A Sequence of Decidable Finitely Axiomatizable Intermediate Logics with the Disjunction Property (with D. H. de Jongh)

Journal of Symbolic Logic, 39, 67—79, 1974.

25. On Second Order Intuitionistic Propositional Calculus with Full Comprehension

Archiv für Mathematische Logik und Grundlagenforschung,16, 177—186, 1974.

26. A Generalization of the Concept of Intensional Semantics

Philosophia, *4*, 251—270, 1974.

27. Branching Quantifiers , English, and Montague Grammar
(with J. M. E. Moravcsik)
Theoretical Linguistics, **1**, 139—157, 1974.

28. Tense Logics and the Tenses of English
In *Readings in Logic*, J. M. E. Moravcsik, ed. Pp. 177—186. Mouton Publishing Co, 1974.

29. A Normal Logic that is Complete for Neighbourhood Frames but not for Kripke Frames
Theoria, **41**, 145—153, 1975.

30. The Decision Problem for Finite Extensions of the Intuitionistic Theory of Abelian Group
Studia Logica, **34**, 59—67, 1975.

31. Decidability Results in Non-Classical Logics I
Annals of Mathematical Logic, **8**, 237—295, 1975.
This paper outlines a general method for proving decidability and undecidability for non-classical logical systems. The method is based on Rabin's results on SwS and uses a variety of semantical and syntacticalinterpretations. It is the main, most powerful and most extensive method for solving the decision problem in the area of non-classical logics. Related papers which widely extend and develop the methods are 5, 10, 11, 14, 16, 18, 20, 24, 30 & 43.

32. Model Theory of Tense Logics
Annals of Mathematics Logic, **8**, 185—236, 1975.

33. Completeness Properties of Heyting's Predicate Calculus with Respect to RE Models
Journal of Symbolic Logic, **41**, 81—95, 1976.
This paper studies the possibility of providing constructive semantics for intuitionistic and non classical logics. It shows that results depend very much on formulation. The related paper is 34.

34. On Kreisel's Notion of Validity in Post Systems
Studia Logica, **35**, 285—295, 1976.

35. Craig's Theorem for Intuitionistic Logic III
*Journal of Symbolic Logic,***42**, 269—271, 1977.

36. Two Dimensional Propositional Tense Logics
In *Bar—Hillel Memorial Volume*, A. Kasher, ed. Pp. 145—183. D. Reidel, 1976.

37. On the Semantics and Pragmatics of Specific and Non-specific Indefinite Expressions (with A. Kasher)
Theoretical Linguistics, **3**, 145—190, 1976.

38. A New Version of Beth Semantics
Journal of Symbolic Logic, **42**, 306—309, 1977.

39. On the Quantifier there is a Certain X (with A. Kasher)
    In Proceedings International Workshop on the Cognitive Viewpoint, Ghent, pp. 329—334, 1977.
    Also *in Communication and Cognition*, **10**, 71—78, 1977.

40. Improper Definite Descriptions: Linguistic Performance and Logical Spaces (with A. Kasher)
    Hebrew Philosophical Quarterly, **27**, 74—89, 1977.

41. On Some New Intuitionistic Propositional Connectives I
    Studia Logica, **36**, 127—139, 1977.

42. Negation and Denial (with J M E Moravcsik)
    In *Studies in Formal Semantics*, F. Guenthner and C. Rohrer, eds. Pp. 251—265. North Holland Pub Co, 1978.

43. Undecidability of Intuitionistic Theories Formulated with the Apartness Relation
    Fundamenta Mathematicae, 97, 57—69, 1977.

44. A Tense System with Split Truth Table
    Logique et Analyse, **21**, 5—39, 1978.

45. What is a Classical Connective?
    Zeitschrift für Mathematische Logik, **24**, 37—44, 1978.

46. Relative Tenses (with C. Rohrer)
    In *Papers on Tense, Aspect and Verb Classification*, C. Rohrer, ed. Pp. 99—111. TBL Verlag G Narr, Tubingen, 1978.
    File: DovPapers/046/046-RelativeTenses.tex

47. Do we really need Tenses other than Future and Past? (with C. Rohrer)
    In *Semantics from Different Points of View*, R. Rauerli, U. Ugli and A Van Stechow, eds. Pp. 15—21, Springer, 1979.

48. On the Temporal Analysis of Fairness (with A. Pnueli, S. Shelah and J. Stavi)
    In *Conference Record of the 7th Annual ACM Symposium on Principles of Programming Languages*, Las Vegas, Nevada, pp. 163—173, 1980.
    Outlines the way to use temporal logic as a tool in software engineering, for program specification and verification. It contains results on axiomatization and decision problems and is one of the standard quoted papers in the area.
    File: DovPapers/048/048-TAF.tex

49. Verbs, Events, and the Flow of Time (with J. M. E. Moravcsik)
    In *Time, Tense and Quantifiers*, C. Rohrer, ed. Pp. 59—83. Niemeyer, Tübingen, 1980.

50. An Irreflexivity Lemma with Applications to Axiomatizations of Conditions on Tense Frames

In *Aspects of Philosophical Logic*, U. Monnich, ed. Pp. 67—89. D. Reidel, 1981.

This paper introduces the — what is now known as — Gabbay's Irreflexivity Rule. The idea has been taken onboard and pursued by many authors. Many systems can be formulated without this rule. Its full nature is not yet understood.
File: DovPapers/050/050-ILAACTF.tex

51. Expressive Functional Completeness in Tense Logic

In *Aspects of Philosophical Logic*, U. Monnich, ed. Pp. 91—117. D. Reidel, 1981.

This paper introduces the separation methods of studying expressive power of temporal languages. Besides deep theoretical results and inter—connections with other areas of logic it gives a practical way for any software engineering user of temporal and modal logic to test and adjust the expressive power of his system. Further papers on the expressive properties of temporal logics are 44, 50 & 60.
File: DovPapers/051/051-EFCTL.tex

52. A Note on Systems of N—Dimensional Tense Logics (with F. Guenthner)

In *Essays Dedicated to L. Aqvist*, T. Pauli, ed. Pp. 63—71. Uppsala, 1982.

53. Intuitionistic Basis for Non-monotonic Logic

In *Proceedings of CADE—6*, pp 260—273. Vol. 138 of Lecture Notes in Computer Science, Springer-Verlag, 1982.

This paper started the area now known as the intuitionistic approach to non monotonicity. It is now a chapter in most monographs on the subject. Another paper on this topic is 61.
File: DovPapers/053/053-IBNML.tex

54. N-Prolog: An Extension of Prolog with Hypothetical Implications I (with U. Reyle)

Journal of Logic Programming, **1**, 319—355, 1984.

55. Theoretical Foundations for Non-monotonic Reasoning in Expert Systems

In *Logics and Models of Concurrent Systems*, K. Apt, ed. pp 439—459. Springer-Verlag, 1985.

This paper, which has had a strong following, proposes an answer to the question: what is a non-monotonic system? It gives axiomatic conditions on the notion of consequence relation, which characterises it as a non-monotonic logic. Further papers in this area are 53, 61 & 81, 95. This paper started the area now known as 'Axiomatic non-monotonic reasoning'.
File: DovPapers/055/055-TFNMR.tex

56. N-Prolog: An Extension of Prolog with Hypothetical Implications 2

Journal of Logic Programming, **2**, 251—283, 1986.

This paper is the first in a series in reformulating classical and non—classical logic in a goal directed way. It initiates the programme, continued in other papers of re—evaluating the notions of logic and proof theory in the light of applications of logic in Infomation Technology. Further papers are 54, 58, 59, 62, 65, 66, 79 and summarized in 87.

57. Negation as Inconsistency (with M. J. Sergot)

Journal of Logic Programming, **4**, 1—35, 1986.

58. What is Negation in a System?

In *Logic Colloquium '86*, F. R. Drake and J. K. Truss, eds. pp 95—112.

Elsevier Science Publishers (North Holland), 1986.

59. Modal and Temporal Logic Programming

In *Temporal Logics and Their Applications*, A. Galton, ed. pp 197—237. Academic Press, 1987.

A basic paper showing what the Horn clause fragment of temporal logic looks like and how to identify such fragments in non classical logics.Other related papers are 67 and 84.

60. Preservation of Expressive Completeness in Temporal Models (with A. Amir)

Information and Computation, **72**, 66—83, 1987.

61. An Intuitionistic Basis for Non-monotonic Reasoning (with M. Clarke)

In *Automated Reasoning for Non-standard Logic*, P. Smets, ed. pp 163—179. Academic Press, 1987.

62. Direct Deductive Computation on Discourse Representation Structures (with U. Reyle)

Linguistics and Philosophy, **17**, pp 345—390, 1994.

63. Temporal Logic, Tense or Non-tense

Inaugural Lecture at Imperial College, 17 May 1988.

In *Machinations. Computational Studies of Logic, Language and Cognition*, R. Spencer-Smith and S. Torrance, eds. pp 1—30. Ablex Publishing Co. 1992.

64. The Declarative Past and Imperative Future

In *Proccedings of the Colloquium on Temporal Logic and Specifications*, H. Barringer, ed. pp 409—448. Vol. 398 of LNCS, Springer—Verlag, 1989.

Proposes temporal logic as a framework for handling timephenomena in computing. Shows that temporal logic can serve as a unifying background for the declarative and imperative paradigms in programming. The basic intuition it develops, all backed by mathematical logic, is that future statements can be read both declaratively (as describing what will happen) and imperatively as commands to go ahead and make it happen. A specific temporal logic is proposed, its mathematical properties studied and its range of applicability is demonstrated. Further papers are 67 & 68, 70, 73, 76, 82, 83, 84, 90 & 93.

65. A Goal Directed Theorem Prover for Predicate Logic based on Conjunction and Implications (with F. Kriwaczek)

The Journal of Automated Reasoning, **7**, 511—536, 1991.

66. Computation with Run Time Skolemisation (with U. Reyle)

Journal of Applied Non-classical Logic, **3**, 93—134, 1993.

67. Modal and Temporal Logic Programming II (A Temporal Prolog Machine)

In *Logic Programming — Expanding the Horizon*, T. Dodd, R. P. Owens and S. Torrance, eds. pp 82—123. Blackwells, 1990.

68. MetateM: A Framework for Programming in Temporal Logic (with H. Barringer, M. Fisher, G. Gough and R. Owens)

   In *REX Workshop on Stepwise Refinement of Distributed Systems: Models, Formalisms, Correctness*, Mook, Netherlands, pp 94—129. Vol. 430 of LNCS, Sspringer-Verlag, 1989.
   File: DovPapers/068/068-metatem.tex

69. An Axiomatization of the Temporal Logic with Until and Since over the Real Numbers (with I. Hodkinson)

   Journal of Logic and Computation, **1**, 229—260, 1990.

70. The Imperative Future: Past Successes Implies Future Action A survey position paper (with H. Barringer)

   In *Proceedings of the Logic from Computer Science*, Y. N. Moschovakis, ed. pp 1—16. Springer-Verlag, 1992.

71. Making Inconsistency Respectable Part 1 (with A. Hunter)

   In *Proceedings of Fundamental of Artificial Intelligence Research (FAIR '91),* .Ph. Jorrand and J. Kelemen, eds. pp 19—32. Vol 535 of LNAI, Springer-Verlag, 1991.

72. Temporal Logic in Context of Databases (with I. Hodkinson)

   In *Logic and Reality*, J. Copeland, ed. pp 69—87, Oxford University Press, 1996.
   File: DovPapers/072/Copeland.tex

73. Using the Temporal Logic RDL for Design Specifications (with I. Hodkinson and A. Hunter)

   In *Concurrency: Theory, Language and Architecture*, A Yonezawa and T Ito, eds. pp 64—78. Vol. 491 of LNCS, Springer-Verlag, 1991.

74. Modal Provability Interpretation for Negation by Failure

   In *Extensions of Logic Programming*, P Schroeder-Heister, ed. pp 179—222. Vol. 475 of LNCS, Springer-Verlag, 1991.

75. Credulous vs Sceptical Semantics for Ordered Logic Programs (with E. Laenens and D. Vermeir)

   In *Proceedings of KR'91*, J. Allen, R. Fikes and E. Sandewall, eds. pp 208—217. 1991.

76. Meta Reasoning in Executable Temporal Logic (with H. Barringer, M. Fisher and A. Hunter)

   In *Proceedings of KR '91*, J. Allen, R. Fikes and E. Sandewall, eds. pp 40—49. 1991.
   File: DovPapers/076/076-MRETL.tex

77. Temporal Expressive Completeness in the Presence of Gaps (with I. Hodkinson and M. Reynolds)

   In *Proceedings of Logic Colloquium '90*, J. Oikkonen and J. Vaananen, eds. pp 89—121. Vol. 2 of Lecture Notes in Logic, Springer-Verlag, 1993.

78. Labelled Deductive Systems: a position paper

In *Proceedings of Logic Colloquium '90*, J. Oikkonen and J. Vaananen, eds. pp 66—88. Vol. 2 of Lecture Notes in Logic, Springer-Verlag, 1993.

This paper proposes a new logic discipline for unifying the currently used classical and non classical logical system. Since this paper was published, many European researchers and projects are using this framework as a unifying theme. A manuscript of a book exists (for OUP) presenting the results. Subsequent papers are 85, 86, 89 & 98.

79. Algorithmic Proof with Diminishing Resources Part I

In *Proceedings of CSL'90*, pp 156—173. Vol. 533 of LNCS, Sprigner-Verlag, 1990.

80. Logic Finite Automata and Constraint Logic Finite Automata (with Klaus Schulz)

In *Applied Logic: How, What and Why*, L. Polos and M. Masuch, eds. pp 237—286. Kluwer, 1995.

81. Theoretical Foundations for Non-monotonic Reasoning Part II: Structured Non-monotonic Theories

In *Proceedings SCAI '91*, B. Mayoh, ed. pp 19—40. IOS Press, 1991.

82. Temporal Logics for Real-time Systems (with R. Owens)

In *Proceedings of the IMACS Symposium on the Modelling and Control of Technological Systems '91*, Vol. 2, pp. 97—103, 1991.

83. Temporal Logic and Historical Databases (with P. McBrien)

In *Proceedings of the 17th International Conference on Very Large Databases*, Barcelona. Pp. 423—431, 1991.

84. Modal and Temporal Logic Programming III

In *Metalevel features in the object language, in Non-classical Logic Programming*, L. Farinas del Cerro and M. Penttonen, eds. pp 85—124. Oxford University Press, 1992.

85. Abduction in Labelled Deductive Systems; a Conceptual Abstract

In *Proceedings of the European Conference on Symbolic and Quantitative Approaches for Uncertainty 91*, R. Kruse and P. Siegel, eds. Pp. 3—12. Vol. 548 of LNCS, Springer-Verlag, 1991.

86. Extending the Curry—Howard Interpretation to Linear, Relevant and other Resource Logics (with R. de Queiroz)

Journal of Symbolic Logic, **57**, 1319—1366, 1992.

87. Elements of Algorthimic Proof Theory

In *Handbook of Logic in Theoretical Computer Science*, Vol 1, S. Abramsky, D. Gabbay and T. S. E. Maibaum, eds. pp 307—408. Oxford University Press, 1992.

88. Towards a MEDLAR framework (with R. J. Cunningham and H. J. Ohlbach)

In *Esprit 91*, pp 822—841. Published by the Commission of the EC, 1991.

89. Labelled Deductive Systems and Situation Theory

In *Situation Theory and Applications,* Vol 3, P. Aczel, D. Israel, Y. Katagin and S. Peters, eds. pp 89—118. CSLI, 1993.

90. Adding a Temporal Dimension to a Logical System (with M. Finger)

Journal of Logic, Language and Information, **1**, 203—234, 1992.
File: DovPapers/090/090-adding.tex

91. Undecidability of Modal and Intermediate Logics with Two Individual Variables (with V. B. Shehtman)

Journal of Symbolic Logic, **58**, 800—823, 1993.

92. Quantifier Elimination in Second Order Predicate Logic (with H. J. Ohlbach)

In *Proceedings of KR'92*, B. Nebel, C.Rich and W. Swartout, eds. Pp. 425—435. 1992.
A short version appeared in *South African Computer Journal*, No.7, pp 35—43, 1992.
This is a seminal paper which is now influential in the AI and the Automated Reasoning community. It provides an algorithm for eliminating second order quantifiers. It has a wide range of applications especially in the following form: Given two specification languages L1 and L2 and some axioms on how they interact, the algorithm can automatically extract the projected specification on each language alone. This is strongly related to interpolation. The research is continued in 94.

93. Labelled Database Management Systems, Part 1; Updating Atomic Information (with M. Finger)

In *Proceedings of International Conference on Database Theory*, 1992 (ICDT 92), pp 188—200. Vol. 646 of LNCS, Springer-Verlag, 1992.

94. From Hilbert Calculus to its Model theoretic Semantics (with H. J. Ohlbach)

In *Proceedings of ALPUK Logic Programming Conference 1992*, K. Broda, ed. pp 218—252. LNCS, Springer-Verlag, 1992.

95. General Theory of Structured Consequence Relations

In *Substructural Logics*, P. Schroeder-Heister and K. Dosen, eds. pp 109—151. Studies in Logic and Computation, Oxford University Press, 1993.

96. Natural Language Content; a Proof Theoretic Perspective — preliminary report (with R. Kempson)

In *Proceedings of The Eighth Amsterdam Colloquium*, pp 173—196. 1991,

97. Logic made Reasonable

KI (German AI Journal), 39—41, 1992. (in German, translated by J. Siekmann)

98. How to Construct a Logic for your Application

In *Proceedings of German AI Conference, GWAI '92*, pp 1—30. Vol. 671 of LNAI, Springer-Verlag, 1992.

99. What is Negation in a System Part II (with H. Wansing)

In *Logic, Action and Information*, A. Fuhrman and H. Rott, eds. Pp. 328—350. De Gryuter, Berlin, 1996.

100. Semantical Correspondence Properties of Some Modal Systems of Logic (with R. Nossum)

In *Proceedings of Scandinavian Conference on Artificial Intelligence '93,* E. Sandewall and C. Jansson, eds. pp. 10—19. IOS Press, 1993.
Prize winning paper

101. Temporal Logic in a Stochastic Environment (with P. Harrison & B. Strulo)

In *Time and Logic,* A. Szalaz and L. Bloc, eds. pp. 229—248. University of London Press, 1994.

102. Labelled Abduction and Relevance Reasoning (with J. Pitt & R. Kempson)

In *Non-standard Queries and Non-standard Answers*, R. Demolombe, ed. Pp. 155—186. Studies in Logic and Computation, Oxford University Press, 1994.

103. Classical vs Non-classical Logic

In *Handbook of Logic in Artificial Intelligence and Logic Programming*, Vol 2, D. Gabbay, C. Hogger and J. A. Robinson, eds. pp 349—489. Oxford University Press,

104. Inconsistency Handling in Multi-perspective Specifications (with A. Finkelstein, A. Hunter, J. Kramer & B. Nuseibeh)

IEEE Transactions on Software Engineering, **20**, 569— 577, 1994.

105. Logical Handling of Default and Inconsistent Information (with Ph. Besnard, L. Farinas del Cerro, & A. Hunter)

In *Proceedings of Conference on Uncertainty Management in Information Systems, from Needs to Solutions*, Ph. Smets and a. Motro, eds. Pp. 325—341, Kluwer, 1997.

106. Making Inconsistency Respectable, Part II (with A. Hunter)

In *Procedings of Euro Conference on Symbolic and Quantitive Approaches to Reasoning and Uncertainity*, M. Clarke, R. Kruse and S. Moral, eds. pp 129—136. Vol. 747 of LNCS, Springer-Verlag, 1993.

107. A Generalization of Analytic Deduction via Labelled Deductive Systems Part 1: Basic Substructural Logics (with M. D'Agostino)

Journal of Automated Reasoning, **13**, 243—281, 1994.

108. Restricted Access Logics for Inconsistent Information (with A. Hunter)

In *Proceedings of Euro. Conference on Symbolic and Quantitive Approaches to Reasoning and Uncertainity*, M. Clarke, R. Kruse and S. Moral, eds. pp 137—144. Vol. 747 of LNCS, Springer-Verlag, 1993.

109. What is a Logical System?

In *What is a Logical System?, D. M. Gabbay, ed.* pp 181—215. Studies in Logic and Computation, Oxford University Press, 1994.

110. Towards a Computational Treatment of Time (with M. A. Reynolds)

In *Handbook of Logic in Artificial Intelligence and Logic Programming*, Vol 4, D. M. Gabbay, C. J. Hogger and J. A. Robinson, eds. pp 343—428. Oxford University Press,

111. Towards Automating Duality (with C. Brink and H. J. Ohlbach)

Journal of Computer and Mathematical Applications, **29**, pp 73—90, 1995.

112. The rule-based systems project: Using confirmation theory and non-monotonic logics for incremental learning (with D. Gillies, A. Hunter, S. Muggleton, Y. Ng and B. Richards)

In *Inductive Logic Programming*, S. Muggleton, ed. Pp. 213—229. Academic Press, 1992.

113. Conditional Logic Programming (with L. Giordano, A. Martelli, N. Olivetti)

In *Logic Programming Proceedings of ICLP '94*, P. van Hentenryck, ed. Pp. 272—289. MIT Press, 1994.

114. Information Flow and the Lambek Calculus (with J. Barwise & C. Hartonas)

In *Logic Language and Computation*, Vol 1, J. Seligman and D. Westerstahl, eds. pp. 47—62. CSLI Publications, 1996.

115. Labelled Deductive Systems and The Informal Fallacies

In *Proceedings of 3rd International Conference on Argumentation*, Vol. 2: Analysis and Evaluation, Sponsored by ISSA, International Society for the Study of Argumentation, F. H. Van Eemeren *et al.,*eds. pp 308—319, 1994.

116. Conditional Implications and Non-monotonic Consequence

In *Views on Conditional, a volume in Studies in Logic and Computation*, L. Farinas del Cerro *et al.*, eds. pp. 347—369. Oxford University Press, 1995.

117. *Temporal Logic: Mathematical Foundations and Computational Aspects, vol 1: Mathematical Foundations (with I. Hodkinson and M. Reynolds)*

Oxford University Press, 1994, 671 pp.
This monograph is the standard reference work in the area.

118. Hypothetical updates, Priority and Inconsistency in in a Logic Programming Language (with L. Giordano, A. Martelli and N. Olivetti)

In *Logic Programming and Non-monotonic Reasoning*, V. W.Marek, A. Nerode and M. Truszczynski, eds. pp 203—216. Vol. 928 of LNCS, Springer-Verlag, 1995.

119. Fibred Semantics and the Weaving of Logics, Part 1:Modal and Intuitionistic logic

Journal of Symbolic Logic, **61**, 1057—1120, 1996.
A revolutionary paper providing methodology for combining systems. Other related papers are 116, 120, 121, 122, 125.

120. Fibred Semantics and the Weaving of Logics, Part 2: Fibring Non-monotonic logics

In *Proceedings of Logic Colloquium 92*, L. Csirmaz, D. Gabbay and M. de Rijke, eds. pp.75—94. SILLI Book Series, 1992.

121. Fibred Semantics for Feature Based Grammar Logic (with J. Dörre and E. König)

Journal of Logic Language and Information, **5**, 387—422, 1996,

122. Combining Temporal Logic Systems (with M. Finger)

Notre Dame Journal of Formal Logic, **37**, 204—232, 1996.

123. The Functional Interpretation of the Existential Quantifier (with R. de Queiroz)

Logic Journal of the IGPL, **3**, 243—290, 1995.

124. MetateM: An Introduction (with H. Barringer, M. Fisher, G. Gough and R. Owens)

Formal Aspects of Computing, **7**, 533—549, 1995.

125. An Overview of Fibred Semantics and The Combination of Logics

In *Frontiers of Combining System, Proceedings of FroCoS'96*, K. Schulz and F. Baader, eds. Pp. 1—56. Applied Logic Series, Kluwer, 1996.

126. *Labelled Deductive Systems; Principles and Applications. Vol 1: Basic   Principles*

Oxford University Press, 1996. 500pp
1st draft Manuscript 1989, 2nd intermediate draft, University of Munich, CIS Bericht 90—22, 1990. Third intermediate draft, Max Planck Institute, Saarbrucken, Technical Report, MPI—I 94—223, 1994.

127. Proof Theoretical Approach to Default Reasoning 1: tableaux for default logic (with G. Aiello, F. Pirri and G. Amati)

Journal of Logic and Computation, **6**, 205—232, 1996.

128. Languages, Meta-languages and MetateM, A Discussion Paper (with D. Brough, M. Fisher, A. Hunter, R. Owens, H. Barringer, G. Gough, I. Hodkinson, P. McBrien and M. Reynolds)

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