

Bibliography

- [Åqvist, 1979] L. Åqvist. A Conjectured Axiomatization of Two-Dimensional Reichenbachian Tense Logic. *J. Philosophical Logic*, 8:1–45, 1979.
- [Abadi and Manna, 1985] M. Abadi and Z. Manna. Nonclausal Temporal Deduction. *Lecture Notes in Computer Science*, 193:1–15, 1985.
- [Abadi and Manna, 1989] M. Abadi and Z. Manna. Temporal Logic Programming. *Journal of Symbolic Computation*, 8(3), 1989.
- [Abadi and Manna, 1990] M. Abadi and Z. Manna. Nonclausal Deduction in First-Order Temporal Logic. *Journal of the ACM*, 37(2):279–317, 1990.
- [Abadi, 1987] M. Abadi. *Temporal-Logic Theorem Proving*. PhD thesis, Department of Computing, Stanford University, 1987. STAN-CS-87-1151.
- [Abiteboul and Grumbach, 1988] S. Abiteboul and S. Grumbach. A Logic-Based Language for Complex Objects. In *Proceedings of the International Conference on Extending Database Technology (EDBT)*, 1988.
- [Abiteboul *et al.*, 1991] S. Abiteboul, P. Kanellakis, and G. Grahne. On the Representation and Querying of Sets of Possible Worlds. *Theoretical Computer Science*, 78(1):159–187, 1991.
- [Abiteboul *et al.*, 1995] S. Abiteboul, R. Hull, and V. Vianu. *Foundations of Databases*. Addison-Wesley, 1995.
- [Abiteboul *et al.*, 1996] S. Abiteboul, L. Herr, and J. Van den Bussche. Temporal Versus First-Order Logic to Query Temporal Databases. In *Proceedings of the ACM Symposium on Principles of Database Systems (PODS)*, pages 49–57, 1996.
- [Abiteboul *et al.*, 1999] S. Abiteboul, L. Herr, and J. Van den Bussche. Temporal Connectives Versus Explicit Timestamps to Query Temporal Databases. *Journal of Computer and System Sciences*, 58(1):54–68, 1999.
- [Ahn, 1986] I. Ahn. Towards an Implementation of Database Management Systems with Temporal Support. In *Proceedings of the 2nd International Conference on Data Engineering*, pages 374–381, 1986.
- [Alferes and Pereira, 1996] J. Alferes and L. Pereira. *Reasoning With Logic Programming*. Springer Verlag, 1996.
- [Aliferis and Cooper, 1996] C. Aliferis and G. Cooper. A Structurally and Temporally Extended Bayesian Belief Network Model: Definitions, Properties, and Modeling Techniques. In *Proceedings of International Conference on Uncertainty in AI (UAI)*, pages 28–38, 1996.
- [Allen and Ferguson, 1994] J.F. Allen and G. Ferguson. Actions and events in interval temporal logic. *Journal of Logic and Computation*, 4(5):531–579, October 1994.

- [Allen and Hayes, 1985] J. Allen and P. Hayes. A Common-Sense Theory of Time. In *Proceedings of the Ninth International Joint Conference on Artificial Intelligence (IJCAI-85)*, pages 528–531, Los Angeles CA, USA, 1985. Morgan Kaufmann.
- [Allen and Hayes, 1989] J. Allen and P. Hayes. Moments and Points in an Interval-Based Temporal Logic. *Computational Intelligence*, 5(4):225–238, November 1989.
- [Allen, 1983] J. F. Allen. Maintaining Knowledge About Temporal Intervals. *Communications of the ACM*, 26(11):832–843, November 1983.
- [Allen, 1984] James Allen. Towards a General Theory of Action and Time. *Artificial Intelligence*, 23:123–154, 1984.
- [Allen, 1991a] James F. Allen. Temporal reasoning and planning. In J. F. Allen, H. Kautz, R. N. Pelavin, and J. Tenenber, editors, *Reasoning about Plans*, chapter 1, pages 1–67. Morgan Kaufmann, 1991.
- [Allen, 1991b] J.F. Allen. Time and Time Again: The Many Ways to Represent Time. *International Journal of Intelligent Systems*, 6(4):341–356, July 1991.
- [Alur and Henzinger, 1991] R. Alur and T.A. Henzinger. Logics and Models of Real-Time: A Survey. In *Real Time: Theory in Practice*, volume 600 of *Lecture Notes in Computer Science*, pages 74–106. Springer-Verlag, 1991.
- [Alur and Henzinger, 1993] R. Alur and T. Henzinger. Real-Time Logics: Complexity and Expressiveness. *Information and Computation*, 104:35–77, 1993.
- [Alur et al., 1993] R. Alur, C. Courcoubetis, T. Henzinger, and P. Ho. Hybrid Automata: an Algorithmic Approach to the Specification and Analysis of Hybrid Systems. In *Proceedings of International Workshop on Theory of Hybrid Systems*, pages 209–229, 1993.
- [Apt and Pellegrini, 1994] K. Apt and A. Pellegrini. On the Occur-Check Free Logic Programs. *ACM Transactions on Programming Languages and Systems*, 16(3):687–726, 1994.
- [Apt et al., 1988] K.R. Apt, H.A. Blair, and A. Walker. Towards a Theory of Declarative Knowledge. In J. Minker, editor, *Foundations of Deductive Databases and Logic Programming*, pages 89–148. Morgan Kaufmann, 1988.
- [Apt, 1990] K.R. Apt. Logic Programming. In Jan van Leeuwen, editor, *Handbook of Theoretical Computer Science*, volume B, chapter 10, pages 493–574. Elsevier/MIT Press, 1990.
- [Arasu et al., 2002] A. Arasu, B. Babcock, S. Babu, J. McAlister, and J. Widom. Characterizing Memory Requirements for Queries over Continuous Data Streams. In *Proceedings of the ACM Symposium on Principles of Database Systems (PODS)*, pages 221–232, 2002.
- [Artale and Franconi, 1994] A. Artale and E. Franconi. A Computational Account for a Description Logic of Time and Action. In *Principles of Knowledge Representation and Reasoning: Proceedings of the Fourth International Conference (KR'94)*, pages 3–14, San Francisco, CA, 1994. Morgan Kaufmann.
- [Artale and Franconi, 1998] A. Artale and E. Franconi. A Temporal Description Logic for Reasoning about Actions and Plans. *Journal of Artificial Intelligence Research*, 9:463–506, 1998.
- [Artale and Franconi, 1999] A. Artale and E. Franconi. Temporal Entity-Relationship Modeling with Description Logics. In *Proceedings of the International Conference on Conceptual Modeling (ER'99)*. Springer-Verlag, November 1999.
- [Artale and Franconi, 2000] A. Artale and E. Franconi. Temporal Description Logics for Conceptual Modelling, July 2000. Technical report, Department of Computer Science, University of Manchester, UK.
- [Artale and Franconi, 2001] A. Artale and E. Franconi. A Survey of Temporal Extensions of Description Logics. *Annals of Mathematics and Artificial Intelligence*, 30(1-4), 2001.

- [Artale and Lutz, 1999] A. Artale and C. Lutz. A Correspondence between Temporal Description Logics. In *Proceedings of the 1999 Description Logic Workshop (DL'99)*, pages 145–149, 1999.
- [Aylett *et al.*, 1998] R. Aylett, J. Soutter, G. Petley, and P. Chung. AI planning in a chemical plant domain. In *Proceedings of European Conference on Artificial Intelligence (ECAI)*, pages 622–626, 1998.
- [Baader and Hanschke, 1991] F. Baader and P. Hanschke. A Scheme for Integrating Concrete Domains into Concept Languages. In *Proceedings of Twelfth International Conference on Artificial Intelligence (IJCAI)*, pages 446–451, Sidney, Australia, 1991.
- [Baader and Hanschke, 1992] F. Baader and P. Hanschke. Extensions of Concept Languages for a Mechanical Engineering Application. In *Proceedings of the 16th German AI-Conference (GWAI-92)*, volume 671 of *Lecture Notes in Computer Science*, pages 132–143. Springer-Verlag, 1992.
- [Baader and Ohlbach, 1995] F. Baader and H.-J. Ohlbach. A Multi-Dimensional Terminological Knowledge Representation Language. *Journal of Applied Non-Classical Logics*, 5:153–19, 1995.
- [Babcock *et al.*, 2002] B. Babcock, S. Babu, M. Datar, R. Motwani, and J. Widom. Models and Issues in Data Stream Systems. In *Proceedings of the ACM Symposium on Principles of Database Systems (PODS)*, pages 1–16, 2002.
- [Bacchus and Ady, 2001] F. Bacchus and M. Ady. Planning with Resources and Concurrency: A Forward Chaining Approach. In *Proceedings of the International Joint Conference on Artificial Intelligence (IJCAI)*, pages 417–424, 2001.
- [Bacchus and Kabanza, 1996] F. Bacchus and F. Kabanza. Planning for Temporally Extended Goals. In *Proceedings of AAAI'96*, pages 1215–1222. AAAI press, 1996.
- [Bacchus and Kabanza, 1998] F. Bacchus and F. Kabanza. Planning for Temporally Extended Goals. *Annals of Mathematics and Artificial Intelligence*, 22:5–27, 1998.
- [Bacchus and Kabanza, 2000] F. Bacchus and F. Kabanza. Using Temporal Logic to Express Search Control Knowledge for Planning. *Artificial Intelligence*, 116(1-2):123–191, 2000.
- [Bacchus *et al.*, 1991] F. Bacchus, J. Tenenber, and J. Koomen. A Non-Reified Temporal Logic. *Artificial Intelligence*, 52(1):87–108, 1991.
- [Bacchus, 2001] F. Bacchus. The AIPS'00 Planning Competition. *AI Magazine*, 22(3):47–56, 2001.
- [Bach, 1986] E. Bach. The Algebra of Events. *Linguistics and Philosophy*, 9:5–16, 1986.
- [Badaloni and Berati, 1994] S. Badaloni and M. Berati. Dealing with Time Granularity in a Temporal Planning System. *Lecture Notes in Computer Science*, 827:101–116, 1994.
- [Baiocchi *et al.*, 2000] M. Baiocchi, S. Marcugini, and A. Milani. DPPlan: An Algorithm for Fast Solutions Extraction from a Planning Graph. In *Proceedings of AIPS*, pages 13–21, 2000.
- [Baker, 1989] A.B. Baker. A simple solution to the Yale Shooting Problem. In R.J. Brachman, H.J. Levesque, and R. Reiter, editors, *Proceedings of the First International Conference on Principles of Knowledge Representation and Reasoning (KR-89)*, pages 11–20. Morgan Kaufmann, 1989.
- [Balbiani *et al.*, 1998] P. Balbiani, J.-F. Condotta, and L.F. del Cerro. Bidimensional Temporal Relations. In *Proceedings of International Conference on Knowledge Representation and Reasoning (KR)*, June 1998.
- [Balbiani *et al.*, 2003] P. Balbiani, J.F. Condotta, and G. Ligozat. On the Consistency Problem for the Inductive Calculus. In *Proceedings of the 10th International Symposium on Temporal Representation and Reasoning and Fourth International Conference on Temporal Logic (TIME-ICTL'03)*. IEEE Computer Society, 2003.
- [Balduccini *et al.*, 2000] M. Balduccini, M. Gelfond, and M. Nogueira. A-Prolog as a Tool for Declarative Programming. In *Proceedings of the 12th International Conference on Software Engineering and Knowledge Engineering (SEKE)*, 2000.

- [Banieqbal and Barringer, 1986] B. Banieqbal and H. Barringer. A Study of an Extended Temporal Logic and a Temporal Fixed Point Calculus. Technical Report UMCS-86-10-2, University of Manchester, Manchester, October 1986.
- [Banieqbal and Barringer, 1987] B. Banieqbal and H. Barringer. Temporal logic with fixed points. In *Temporal Logic in Specification*, page 62. LNCS 398 Springer-Verlag, April 1987.
- [Barahona, 1994] P. Barahona. A Causal and Temporal Reasoning Model and its use in Drug Therapy Applications. *Artificial Intelligence in Medicine*, 6:1–27, 1994.
- [Baral and Gelfond, 1994] C. Baral and M. Gelfond. Logic programming and knowledge representation. *Journal of Logic Programming*, 19,20:73–148, 1994.
- [Baral and Gelfond, 1997] C. Baral and M. Gelfond. Reasoning about Effects of Concurrent Actions. *Journal of Logic Programming*, 31(1-3):85–117, May 1997.
- [Baral and Gelfond, 2000] C. Baral and M. Gelfond. Reasoning Agents in Dynamic Domains. In J. Minker, editor, *Logic Based Artificial Intelligence*. Kluwer, 2000.
- [Baral et al., 1997] C. Baral, M. Gelfond, and A. Proveti. Representing Actions: Laws, Observations and Hypothesis. *Journal of Logic Programming*, 31(1-3):201–243, May 1997.
- [Baral, 1995] C. Baral. Reasoning about Actions : Non-deterministic effects, Constraints and Qualification. In *Proceedings of International Joint Conference on Artificial Intelligence (IJCAI)*, pages 2017–2023, 1995.
- [Baral, 1997] C. Baral. Embedding Revision Programs in Logic Programming Situation Calculus. *Journal of Logic Programming*, 30(1):83–97, Jan 1997.
- [Baral, August 1994] C. Baral. Rule Based Updates on Simple Knowledge Bases. In *Proceedings of AAAI'94*, pages 136–141, August 1994.
- [Barber, 1993] F. A. Barber. A Metric Time-Point and Duration-Based Temporal Model. *SIGART Bulletin*, 4(3):30–49, 1993.
- [Barendregt, 1984] H. P. Barendregt. *The Lambda Calculus: Its Syntax and Semantics*, volume 103 of *Studies in Logic and the Foundations of Mathematics*. North-Holland, 1984.
- [Barnes and Barnett, 1995] M. Barnes and G. Barnett. An Architecture for a Distributed Guideline Server. In R. M. Gardner, editor, *Proceedings of the Annual Symposium on Computer Applications in Medical Care (SCAMC)*, pages 233–237, New Orleans, USA, 1995. Hanley & Belfus.
- [Barringer and Kuiper, 1984] H. Barringer and R. Kuiper. Hierarchical Development of Concurrent Systems in a Temporal Logic Framework. In S.D. Brookes, A.W. Roscoe, and G. Winskel, editors, *Proceedings of the NSF/SERC Seminar on Concurrency*, volume 197 of *Lecture Notes in Computer Science*, pages 35–61. Springer-Verlag, Heidelberg, 1984.
- [Barringer et al., 1984] H. Barringer, R. Kuiper, and A. Pnueli. Now You May Compose Temporal Logic Specifications. In *Proceedings of the 16th Symposium on Theory of Computing (STOC)*, pages 51–63. ACM, April 1984.
- [Barringer et al., 1986] H. Barringer, R. Kuiper, and A. Pnueli. A really abstract concurrent model and its temporal logic. In *Proceedings of the Thirteenth ACM Symposium on the Principles of Programming Languages*, pages 173–183, St. Petersburg Beach, Florida, January 1986. ACM Press.
- [Barringer et al., 1995] H. Barringer, M. Fisher, D. Gabbay, G. Gough, and R. Owens. METATEM: An Introduction. *Formal Aspects of Computing*, 7(5):533–549, 1995.
- [Barringer et al., 1996] H. Barringer, M. Fisher, D. Gabbay, R. Owens, and M. Reynolds, editors. *The Imperative Future: Principles of Executable Temporal Logics*. Research Studies Press, Chichester, United Kingdom, 1996.
- [Baudinet et al., 1993] M. Baudinet, J. Chomicki, and P. Wolper. Temporal Deductive Databases. In Tansel et al. [1993], pages 294–320.

- [Baudinet *et al.*, 1999] M. Baudinet, J. Chomicki, and P. Wolper. Constraint-Generating Dependencies. *Journal of Computer and System Sciences*, 59(1):94–115, 1999.
- [Baudinet, 1992] M. Baudinet. A Simple Proof of the Completeness of Temporal Logic Programming. In L. Fariñas del Cerro and M. Penttonen, editors, *Intensional Logics for Programming*. Oxford University Press, 1992.
- [Baudinet, 1995] M. Baudinet. On the Expressiveness of Temporal Logic Programming. *Information and Computation*, 117(2):157–180, 1995.
- [Becher *et al.*, 1998] G. Becher, F. Clérin-Debart, and P. Enjalbert. A Model for Time Granularity in Natural Language. In *Proceedings of International Workshop on Temporal Representation and Reasoning (TIME)*, Los Alamitos (CA US), 1998. IEEE computer society press.
- [Bell and Tate, 1985] C.E. Bell and T. Tate. Use and Justification of Algorithms for Managing Temporal Knowledge in o-plan. Technical Report 531, AIAI, Edinburgh, U.K., 1985.
- [Bellini *et al.*, 2000] P. Bellini, R. Mattolini, and P. Nesi. Temporal Logics for Real-Time System Specification. *ACM Computing Surveys*, 32(1):12–42, March 2000.
- [Bench-Capon *et al.*, 1988] T. Bench-Capon, G. Robinson, T. Routen, and M. Sergot. Logic Programming for Large Scale Applications in Law: A Formalization of Supplementary Benefit Legislation. In Hayes, Michie, and Richards, editors, *Machine Intelligence*, pages 209–260. Oxford Univ. Press, 1988.
- [Benerecetti *et al.*, 1998] M. Benerecetti, F. Giunchiglia, and L. Serafini. Model Checking Multiagent Systems. *Journal of Logic and Computation*, 8(3):401–423, 1998.
- [Bennett *et al.*, 2002a] B. Bennett, A. Cohn, F. Wolter, and M. Zakharyashev. Multi-dimensional modal logic as a framework for spatio-temporal reasoning. *Applied Intelligence*, 2002.
- [Bennett *et al.*, 2002b] B. Bennett, C. Dixon, M. Fisher, E. Franconi, I. Horrocks, and M. de Rijke. Combinations of Modal Logics. *AI Review*, 17(1):1–20, 2002.
- [Bennett, 1988] J. Bennett. *Events and Their Names*. Clarendon Press, Oxford, 1988.
- [Benthem, 1984] J.F.A.K. van Benthem. Correspondence Theory. In D. Gabbay and F. Guentner, editors, *Handbook of Philosophical Logic - volume II*. Reidel, Dordrecht, 1984.
- [Benthem, 1988a] J.F.A.K. van Benthem. *A Manual of Intensional Logic - Second Edition, Revised and Expanded*, volume 1 of *CSLI Lecture Notes*. Center for the Study of Language and Information, Stanford University, California, 1988.
- [Benthem, 1988b] J.F.A.K. van Benthem. Time, Logic and Computation. In J. W. de Bakker, W.-P. de Roever, and G. Rozenberg, editors, *Linear Time, Branching Time and Partial Order in Logics and Models for Concurrency - LNCS Vol. XXX*, pages 1–49. Springer-Verlag, Heidelberg, June 1988.
- [Benthem, 1995] J.F.A.K. van Benthem. Temporal logic. In D. M. Gabbay, C. J. Hogger, and J. A. Robinson, editors, *Handbook of Logic in Artificial Intelligence and Logic Programming, Volume 4: Epistemic and Temporal Reasoning*, pages 241–350. Clarendon Press, Oxford, 1995.
- [Benzen, 1959] S. Benzen. On the Topology of the Genetic Fine Structure. *Proceedings of the National Academy of Science*, 45(10):1607–1620, 1959.
- [Berleant and Kuipers, 1997] D. Berleant and B. Kuipers. Qualitative and Quantitative Simulation: Bridging the Gap. *Artificial Intelligence*, 95(2):215–255, 1997.
- [Berman, 1980] L. Berman. The Complexity of Logical Theories. *Theoretical Computer Science*, 11:71–78, 1980.
- [Bernholtz, 1995] O. Bernholtz. *Model Checking for Branching Time Temporal Logics*. PhD thesis, The Technion, Israel, 1995.

- [Bertoli *et al.*, 2001] P. Bertoli, A. Cimatti, M. Roveri, and P. Traverso. Planning in Non-Deterministic Domains under Partial Observability via Symbolic Model-Checking. In *Proceedings of International Joint Conference on Artificial Intelligence (IJCAI)*, 2001.
- [Berzuiini *et al.*, 1989] C. Berzuiini, R. Bellazzi, and S. Quaglini. Temporal Reasoning with Probabilities. In *Proceedings of International Conference on Uncertainty in Artificial Intelligence (UAI)*, 1989.
- [Berzuiini *et al.*, 1997] C. Berzuiini, N.G. Best, W.R. Gilks, and C. Larizza. Dynamic Conditional Independence Models and Markov Chain Monte Carlo Methods. *Journal of the American Statistical Association*, 92:1403–1412, 1997.
- [Bessièrè *et al.*, 1996] C. Bessièrè, A. Isli, and G. Ligozat. Global Consistency in Interval Algebra Networks: Tractable Subclasses. In *Proceedings of the Fifteenth European Conference on Artificial Intelligence (ECAI)*, 1996.
- [Bessièrè, 1996] C. Bessièrè. A Simple Way to Improve Path-Consistency in Interval Algebra Networks. In *Proceedings of the Thirteenth National Conference of the American Association for Artificial Intelligence (AAAI)*, pages 375–380, Portland, OR, 1996.
- [Bessièrè, 1997] C. Bessièrè. Personal communication, August 1997.
- [Beth, 1955] E. Beth. Semantic Entailment and Formal Derivability. *Mededelingen der Koninklijke Nederlandse Akad. van Wetensch*, 18, 1955.
- [Bettini *et al.*, 1996] C. Bettini, X. S. Wang, and S. Jajodia. Testing Complex Temporal Relationships Involving Multiple Granularities and its Application to Data Mining. In *Proceedings of International Conference on Principles of Database Systems (PODS)*, pages 68–78, 1996.
- [Bettini *et al.*, 1998a] C. Bettini, C. Dyreson, W. Evans, R. Snodgrass, and X. S. Wang. A Glossary of Time Granularity Concepts. In O. Etzion, S. Jajodia, and S. M. Sripada, editors, *Temporal Databases: Research and Practice*, volume 1399 of *Lecture Notes in Computer Science*, pages 406–413. Springer-Verlag, 1998.
- [Bettini *et al.*, 1998b] C. Bettini, X. S. Wang, and S. Jajodia. An Architecture for Supporting Interoperability among Temporal Databases. In O. Etzion, S. Jajodia, and S. M. Sripada, editors, *Temporal Databases: Research and Practice*, volume 1399 of *Lecture Notes in Computer Science*, pages 26–55. Springer-Verlag, 1998.
- [Bettini *et al.*, 1998c] C. Bettini, X. S. Wang, and S. Jajodia. A General Framework for Time Granularity and its Application to Temporal Reasoning. *Annals of Mathematics and Artificial Intelligence*, 1(22):29–58, 1998.
- [Bettini *et al.*, 1998d] C. Bettini, X. S. Wang, S. Jajodia, and J-L. Lin. Discovering Frequent Event Patterns with Multiple Granularities in Time Sequences. *IEEE Transactions on Knowledge and Data Engineering*, 2(10):222–237, 1998.
- [Bettini *et al.*, 1998e] C. Bettini, X.S. Wang, E. Bertino, and S. Jajodia. Semantic Assumptions and Query Evaluation in Temporal Databases. *IEEE Transactions on Knowledge and Data Engineering*, 10(2):277–296, 1998.
- [Bettini *et al.*, 2000] C. Bettini, S. Jajodia, and X. S. Wang. *Time Granularities in Databases, Data Mining, and Temporal Reasoning*. Springer, Berlin, Germany, 2000.
- [Bettini *et al.*, 2003] C. Bettini, S. Mascetti, and V. Pupillo. GSTP: A Temporal Reasoning System Supporting Multi-Granularity Temporal Constraints. In *Proceedings of the International Joint Conference on Artificial Intelligence (IJCAI); Intelligent Systems Demonstrations*, pages 1633–1634. Morgan Kaufmann, 2003.
- [Bettini, 1997] C. Bettini. Time Dependent Concepts: Representation and Reasoning Using Temporal Description Logics. *Data and Knowledge Engineering*, 22(1):1–38, 1997.

- [Bidoit *et al.*, 2004] N. Bidoit, S. de Amo, and L. Segoufin. Order Independent Temporal Properties. *Journal of Logic and Computation*, 2004.
- [Birman, 1991] K. P. Birman. The Process Group Approach to Reliable Distributed Computing. Technical Report TR91-1216, Department of Computer Science, Cornell University, July 1991.
- [Bitner and Reingold, 1975] J.R. Bitner and E.M. Reingold. Backtrack Programming Techniques. *Journal of the ACM*, 18:651–655, 1975.
- [Bittner and Steel, 1998] T. Bittner and J. Steel. A Boundary Sensitive Approach to Qualitative Location. *Annals of Mathematics and Artificial Intelligence*, 24(1-2):93–114, 1998.
- [Bittner, 2002] T. Bittner. Approximate Qualitative Temporal Reasoning. *Annals of Mathematics and Artificial Intelligence*, 36(1-2):39–80, 2002.
- [Bjorner *et al.*, 1995] N. Bjorner, A. Browne, E. Chang, M. Colón, A. Kapur, Z. Manna, H. B. Sipma, and T. E. Uribe. *STeP: The Stanford Temporal Prover Educational Release Version 1.0 User's Manual*. Computer Science Department, Stanford University, California 94305, November 1995.
- [Blackburn *et al.*, 2001] P. Blackburn, M. de Rijke, and Yde Venema. *Modal Logic*, volume 53 of *Cambridge Tracts in Theoretical Computer Science*. Cambridge University Press, Cambridge, England, 2001.
- [Blum and Furst, 1995] A. Blum and M. Furst. Fast Planning through Plan-graph Analysis. In *Proceedings of the International Joint Conference on Artificial Intelligence (IJCAI)*, 1995.
- [Blum, 1982] R.L. Blum. Discovery and Representation of Causal Relationships from a Large Time-Oriented Clinical Database: The RX Project. In D.A. Lindberg and P.L. Reichartz, editors, *Lecture Notes in Medical Informatics*, volume 19. Springer-Verlag, New York, 1982.
- [Blumsohn, 1991] G. Blumsohn. *Three Essays on Law and Information in the Law of Damages*. Dissertation Information Service. UMI, 1991.
- [Blythe, 1995] J. Blythe. AI Planning in Dynamic, Uncertain Domains. In *Proceedings of AAAI Spring Symposium on Extending Theories of Action*, 1995.
- [Blythe, 1999] J. Blythe. An Overview of Planning Under Uncertainty. *Lecture Notes in Computer Science*, 1600:85–110, 1999.
- [Boaz and Shahar, 2003] D. Boaz and Y. Shahar. Idan: A Distributed Temporal-Abstraction Mediator for Medical Databases. In *Proceedings of the Ninth Conference on Artificial Intelligence in Medicine — Europe (AIME)*, Protaras, Cyprus, 2003.
- [Boddy and Dean, 1994] M. Boddy and T. Dean. Deliberation Scheduling for Problem Solving in Time-Constrained Enviroments. *Artificial Intelligence*, 67(2):245–285, 1994.
- [Boddy, 1993] Mark Boddy. Temporal Reasoning for Planning and Scheduling. *SIGART Bulletin*, 4(3):17–20, 1993.
- [Böhlen *et al.*, 1996a] M. Böhlen, J. Chomicki, R.T. Snodgrass, and D. Toman. Querying TSQL2 Databases with Temporal Logic. In *International Conference on Extending Database Technology (EDBT)*, Avignon, France, 1996. Springer Verlag, LNCS 1057.
- [Böhlen *et al.*, 1996b] M. Böhlen, R.T. Snodgrass, and M.D. Soo. Coalescing in Temporal Databases. In *International Conference on Very Large Data Bases (VLDB)*, pages 180–191, 1996.
- [Bolotov and Fisher, 1997] A. Bolotov and M. Fisher. A Resolution Method for CTL Branching-Time Temporal Logic. In *Proceedings of the Fourth International Workshop on Temporal Representation and Reasoning (TIME)*, Daytona Beach, Florida, May 1997. IEEE Computer Society Press.
- [Bonet and Geffner, 1997] B. Bonet and H. Geffner. Planning as Heuristic Search: New Results. In *Proceedings of the Fourth European Conference on Planning (ECP)*. Springer-Verlag, 1997.

- [Bonet and Geffner, 2000] B. Bonet and H. Geffner. Planning with Incomplete Information as Heuristic Search in Belief Space. In *Proceedings of the Fifth International Conference on AI Planning and Scheduling (AIPS)*, 2000.
- [Bonet *et al.*, 1997] B. Bonet, G. Loerincs, and H. Geffner. A Robust and Fast Action Selection Mechanism for Planning. In *Proceedings of the Fourteenth National Conference on AI (AAAI)*, pages 714–719. AAAI/MIT Press, 1997.
- [Bordini *et al.*, 2003a] R. Bordini, M. Fisher, C. Pardavila, and M. Wooldridge. Model Checking AgentSpeak. In *Proceedings of the Second International Joint Conference on Autonomous Agents and Multi-Agent Systems (AAMAS), Melbourne, Australia, 14–18 July, 2003*.
- [Bordini *et al.*, 2003b] R. Bordini, M. Fisher, W. Visser, and M. Wooldridge. Verifiable Multi-Agent Programs. In *Proceedings of the First International Workshop on Programming Multiagent Systems: languages, frameworks, techniques and tools (PROMAS), Melbourne, Australia, 2003*.
- [Bordini *et al.*, 2003c] R. Bordini, W. Visser, M. Fisher, C. Pardavila, and M. Wooldridge. Model Checking Multi-Agent Programs with CASP. In *Proceedings of the Fifteenth Conference on Computer-Aided Verification (CAV), Boulder, USA, 8–12 July, 2003*.
- [Borg *et al.*, 1983] A. Borg, J. Baumbach, and S. Glazer. A Message System Supporting Fault Tolerance. In *Proceedings of the Ninth ACM Symposium on Operating System Principles*, pages 90–99, New Hampshire, October 1983. ACM. (In ACM Operating Systems Review, vol. 17, no. 5).
- [Boutilier and Goldszmidt, 1996] C. Boutilier and M. Goldszmidt. The Frame Problem and Bayesian Network Action Representations. In *Proceedings of the Eleventh Biennial Canadian Conference on Artificial Intelligence*, May 1996.
- [Boutilier *et al.*, 1995a] C. Boutilier, T. Dean, and S. Hanks. Planning Under Uncertainty: Structural Assumptions and Computational Leverage. In *Proceedings of the Second European Planning Workshop*, 1995.
- [Boutilier *et al.*, 1995b] C. Boutilier, R. Dearden, and M. Goldszmidt. Exploiting Structure in Policy Construction. In *Proceedings of the International Joint Conference on Artificial Intelligence (IJCAI)*, 1995.
- [Boutilier *et al.*, 1999] C. Boutilier, T. Dean, and S. Hanks. Decision Theoretic Planning: Structural Assumptions and Computational Leverage. *Journal of AI Research*, 11:1–94, 1999.
- [Boyer and Koller, 1998] X. Boyen and D. Koller. Approximate Learning of Dynamic Models. In *Proceedings of NIPS*, pages 396–402, 1998.
- [Bradshaw *et al.*, 1999] J. Bradshaw, M. Greaves, H. Holmback, T. Karygiannis, B. Silverman, N. Suri, and A. Wong. Agents for the Masses? *IEEE Intelligent Systems*, 14(2), 1999.
- [Brajnik and Clancy, 1998] G. Brajnik and D. J. Clancy. Focusing Qualitative Simulation Using Temporal Logic: Theoretical Foundations. *Annals of Mathematics and Artificial Intelligence*, 22(1-2):59–86, 1998.
- [Brass *et al.*, 1998] S. Brass, J. Dix, I. Niemelä, and T. Przymusiński. A Comparison of the Static and the Disjunctive Well-Founded Semantics and its Implementation. In *Proceedings of International Conference on Knowledge Representation and Reasoning (KR)*, pages 74–85, 1998.
- [Bratman, 1990] M. E. Bratman. What is intention? In P. R. Cohen, J. L. Morgan, and M. E. Pollack, editors, *Intentions in Communication*, pages 15–32. MIT Press, 1990.
- [Bresina *et al.*, 2002] J. Bresina, R. Dearden, N. Meuleau, D. Smith, and R. Washington. Planning under Continuous Time and Resource Uncertainty: A Challenge for AI. In *Proceedings of AIPS Workshop on Temporal Planning*, 2002.
- [Bresolin *et al.*, 2004] D. Bresolin, A. Montanari, and G. Puppis. Time Granularities and Ultimately Periodic Automata. In *Ninth European Conference on Logics in Artificial Intelligence (JELIA)*, volume 3229 of *Lecture Notes in Artificial Intelligence*, pages 513–525. Springer-Verlag, 2004.

- [Broy, 1997] M. Broy. Refinement of Time. *Lecture Notes in Computer Science*, 1231:44–63, 1997.
- [Bruce, 1972] B. Bruce. A Model for Temporal References and its application in a Question Answering Program. *Artificial Intelligence*, 4:1–25, 1972.
- [Bruneel and Clarebout, 1994] G. Bruneel and P. Clarebout. Een implementatie van SLD-NFA+CLP(R) en zijn toepassing voor het redeneren over continue verandering. Masterthesis, supervisors: M. Denecker and D. De Schreye, Dept. of Computing, K.U.Leuven, in Dutch, 1994.
- [Brusoni *et al.*, 1994] V. Brusoni, L. Console, B. Pernici, and P. Terenziani. LaTeR: A General Purpose Manager of Temporal Information. In *Proceedings of the Eighth International Symposium on Methodologies for Intelligent Systems (ISMIS)*, volume 869 of *Lecture Notes in Computer Science*. Springer-Verlag, 1994.
- [Brusoni *et al.*, 1995a] V. Brusoni, L. Console, B. Pernici, and P. Terenziani. Extending Temporal Relational Databases to Deal with Imprecise and Qualitative Temporal Information. In J. Clifford and A. Tuzhilin, editors, *Recent Advances in Temporal Databases (Proceedings of the International Workshop on Temporal Databases, Zürich, Switzerland, September 1995)*, Workshops in Computing. Springer, 1995.
- [Brusoni *et al.*, 1995b] V. Brusoni, L. Console, and P. Terenziani. On the Computational Complexity of Querying Bounds on Differences Constraints. *Artificial Intelligence*, 74(2):367–379, 1995.
- [Brusoni *et al.*, 1997] V. Brusoni, L. Console, B. Pernici, and P. Terenziani. LaTeR: An Efficient, General Purpose Manager of Temporal Information. *IEEE Expert*, 12(4):56–64, August 1997.
- [Brusoni *et al.*, 1998] V. Brusoni, L. Console, P. Terenziani, and D. Theseider Dupré. A spectrum of definitions for temporal model-based diagnosis. *Artificial Intelligence*, 102(1):39–80, 1998.
- [Brusoni *et al.*, 1999] V. Brusoni, L. Console, P. Terenziani, and B. Pernici. Qualitative and Quantitative Temporal Constraints and Relational Databases: Theory, Architecture, and Applications. *IEEE Transactions on Knowledge and Data Engineering*, 1(6):948–968, 1999.
- [Bruss and Meyer, 1980] A.R. Bruss and A.R. Meyer. On Time-Space Classes and their Relation to the Theory of Real Addition. *Theoretical Computer Science*, 11:59–69, 1980.
- [Bruynooghe, 1981] M. Bruynooghe. Solving Combinatorial Search Problems by Intelligent Backtracking. *Information Processing Letters*, 12(1), 1981.
- [Brzoska, 1991] Ch. Brzoska. Temporal Logic Programming and its Relation to Constraint Logic Programming. In *Proceedings of International Logic Programming Symposium (ILPS)*, 1991.
- [Brzoska, 1993] Ch. Brzoska. Temporal Logic Programming with Bounded Universal Goals. In *Proceedings of the Tenth International Conference on Logic Programming (ICLP)*, pages 239–256, 1993.
- [Brzoska, 1995] Ch. Brzoska. Temporal Logic Programming in Dense Time. In *Proceedings of International Logic Programming Symposium (ILPS)*, 1995.
- [Brzozowski and Leiss, 1980] J. Brzozowski and E. Leiss. Finite Automata, and Sequential Networks. *Theoretical Computer Science*, 10, 1980.
- [Buchanan and Shortliffe, 1984] B.G. Buchanan and E.H. Shortliffe, editors. *Rule Based Expert Systems: The MYCIN Experiments of the Stanford Heuristic Programming Project*. Addison-Wesley, Reading, USA, 1984.
- [Büchi, 1960] J. R. Büchi. Weak Second-Order Arithmetic and Finite Automata. *Z. Math. Logik Grundlag. Math.*, 6:66–92, 1960.
- [Büchi, 1962] J.R. Büchi. On a Decision Method in Restricted Second Order Arithmetic. In *Logic, Methodology, and Philosophy of Science: Proceedings of 1960 International Congress*, pages 1–11. Stanford University Press, 1962.

- [Bulygin, 1982] E. Bulygin. Time and Validity. In A. Martino, editor, *Deontic Logic, Computational Linguistics and Information Systems*, chapter Vol. II, pages 65–81. North-Holland, 1982.
- [Burgess, 1982] J. P. Burgess. Axioms for Tense Logic I: ‘Since’ and ‘Until’. *Notre Dame J. Formal Logic*, 23(2):367–374, 1982.
- [Burgess, 1984] J.P. Burgess. Basic Tense Logic. In D. Gabbay and F. Guenther, editors, *Handbook of Philosophical Logic, volume II*, pages 89–133. D. Reidel Publishing Company, 1984.
- [Bylander, 1994] T. Bylander. The Computational Complexity of Propositional STRIPS Planning. *Artificial Intelligence*, 69(1-2), 1994.
- [Caironi *et al.*, 1997] P. Caironi, L. Portoni, C. Combi, F. Pincioli, and S. Ceri. HyperCare: A Prototype of an Active Database for Compliance with Essential Hypertension Therapy Guidelines. In *Proceedings of the AMIA Annual Fall Symposium (formerly the Symposium on Computer Applications in Medical Care)*, pages 288–292, Philadelphia, USA, 1997. Hanley & Belfus.
- [Calvanese *et al.*, 2001] D. Calvanese, G. De Giacomo, M. Lenzerini, and D. Nardi. Reasoning in Expressive Description Logics. In *Handbook of Automated Reasoning*, pages 1581–1634. Elsevier, 2001.
- [Carlson and Pelletier, 1995] G. Carlson and J. Pelletier, editors. *The Generic Book*. University of Chicago Press, Chicago, 1995.
- [Carton and Thomas, 2002] O. Carton and W. Thomas. The Monadic Theory of Morphic Infinite Words and Generalizations. *Information and Computation*, 176:51–65, 2002.
- [Casati and Varzi, 1996] R. Casati and A. Varzi, editors. *Events*, volume 15 of *The International Research Library of Philosophy*. Dartmouth Publishing, Aldershot, 1996.
- [Castellini *et al.*, 2001] C. Castellini, E. Giunchiglia, and A. Tacchella. C-Plan: a Conformant Planner based on Satisfiability. In *Proceedings of International Joint Conference on Artificial Intelligence*, 2001.
- [Cavalli and Fariñas del Cerro, 1984] A. Cavalli and L. Fariñas del Cerro. A Decision Method for Linear Temporal Logic. In R. E. Shostak, editor, *Proceedings of the Seventh International Conference on Automated Deduction (CADE)*, volume 170 of *Lecture Notes in Computer Science*, pages 113–127. Springer-Verlag, 1984.
- [Cervoni *et al.*, 1994] R. Cervoni, A. Cesta, and A. Oddi. Managing Dynamic Temporal Constraint Networks. In *Proceedings of the Second International Conference on Artificial Intelligence Planning Systems (AIPS)*, pages 196–201, Chicago, USA, 1994. AAAI press.
- [Cesta and Oddi, 1995] A. Cesta and A. Oddi. A Formal Domain Description Language for a Temporal Planner. In *Topics in AI: Proceedings of the Fourth Congress of the Italian Association for AI (AI*AI)*, pages 255–260, 1995.
- [Cesta and Oddi, 1996] A. Cesta and A. Oddi. Gaining Efficiency and Flexibility in the Simple Temporal Problem. In L. Chittaro, S.D. Goodwin, H.J. Hamilton, and A. Montanari, editors, *Proceedings of the Third International Workshop on Temporal Representation and Reasoning (TIME)*, 1996.
- [Chakravarty and Shahar, 2000] S. Chakravarty and Y. Shahar. A Constraint-Based Specification of Periodic Patterns in Time-Oriented Data. *Annals of Mathematics and Artificial Intelligence*, 30:1–4, 2000.
- [Chakravarty and Shahar, 2001] S. Chakravarty and Y. Shahar. Specification and Detection of Periodicity in Clinical Data. *Methods of Information in Medicine*, 40(5):410–420, 2001. (Reprinted in: Haux, R., and Kulikowski, C. (eds), *Yearbook of Medical Informatics 2003*, Stuttgart: F.K. Schattauer and The International Medical Informatics Association, pp.296-306).
- [Chandra *et al.*, 1981a] A. Chandra, J.Y. Halpern, A. Meyer, and R. Parikh. Equations between Regular Terms and an Application to Process Logic. In *Proceedings of the Thirteenth Annual ACM Symposium on Theory of Computation (STOC)*, pages 384–390, Milwaukee, USA, 1981.

- [Chandra *et al.*, 1981b] A. Chandra, D. Kozen, and L. Stockmeyer. Alternation. *Journal of the ACM*, 28:114–133, 1981.
- [Chaochen and Hansen, 1998] Z. Chaochen and M. Hansen. An Adequate First Order Interval Logic. In W.P. de Roever, H. Langmaak, and A. Pnueli, editors, *Compositionality: the Significant Difference*, volume 1536 of *LNCS*, pages 584–608. Springer, 1998.
- [Chapman, 1987] D. Chapman. Planning for Conjunctive Goals. *Artificial Intelligence*, 32(3):333–377, 1987.
- [Charniak and McDermott, 1985] E. Charniak and D. McDermott. *Introduction to Artificial Intelligence*. Addison-Wesley, 1985.
- [Charniak, 1991] E. Charniak. Bayesian Networks without Tears. *AI Magazine*, 12(4):50–63, December 1991.
- [Cheeseman *et al.*, 1991] P. Cheeseman, B. Kanefsky, and W.M. Taylor. Where the *really* hard problems are. In *Proceedings of the Twelfth International Joint Conference on Artificial Intelligence (IJCAI)*, pages 331–337. Morgan Kaufmann, 1991.
- [Chemilieu-Gendreau, 1987] M. Chemilieu-Gendreau. *Le Role du Temps dans la Formation du Droit International*. Droit International. Editions Pedone, 1987.
- [Chen and Warren, 1989] W. Chen and D. Warren. C-logic of Complex Objects. In *Proceedings of the Eighth ACM-SIGACT-SIGMOD-SIGART Symposium on Principles of Database Systems (PODS)*, 1989.
- [Chen and Zaniolo, 1999] C. X. Chen and C. Zaniolo. Universal Temporal Extensions for Database Languages. In *Proceedings of IEEE International Conference on Data Engineering*, pages 428–437, 1999.
- [Chen *et al.*, 1995] W. Chen, T. Swift, and D. Warren. Efficient Top-Down Computation of Queries under the Well-Founded Semantics. *Journal of Logic Programming*, 24(3):161–201, 1995.
- [Chen *et al.*, 2000] J. Chen, D. J. DeWitt, F. Tian, and Y. Wang. NiagaraCQ: A Scalable Continuous Query System for Internet Databases. In *Proceedings of the ACM SIGMOD International Conference on Management of Data*, pages 379–390, 2000.
- [Chien *et al.*, 2001] S-Y. Chien, V. J. Tsotras, and C. Zaniolo. Version Management of XML Documents. *SIGMOD Record*, 30(3):46–53, 2001.
- [Chien *et al.*, 2002] S-Y. Chien, V. J. Tsotras, and C. Zaniolo. Efficient Schemes for Managing Multiversion XML Documents. *The VLDB Journal*, 11(4):332–353, 2002.
- [Chimenti, 1990] D. Chimenti. The IDL System Prototype. *IEEE Transactions on Knowledge and Data Engineering*, 2(1):78–90, 1990.
- [Chittaro and Dojat, 1997] L. Chittaro and M. Dojat. Using a General Theory of Time and Change in Patient Monitoring: Experiment and Evaluation. *Computers in Biology and Medicine*, 27(5):435–452, 1997.
- [Chomicki and Imieliński, 1988] J. Chomicki and T. Imieliński. Temporal Deductive Databases and Infinite Objects. In *Proceedings of the ACM Symposium on Principles of Database Systems (PODS)*, pages 61–73, Austin, USA, March 1988.
- [Chomicki and Niwinski, 1995] J. Chomicki and D. Niwinski. On the Feasibility of Checking Temporal Integrity Constraints. *Journal of Computer and System Sciences*, 51(3):523–535, December 1995.
- [Chomicki and Toman, 1998] J. Chomicki and D. Toman. Temporal Logic in Information Systems. In J. Chomicki and G. Saake, editors, *Logics for Databases and Information Systems*, pages 31–70. Kluwer, 1998.

- [Chomicki *et al.*, 1996] J. Chomicki, D. Goldin, and G. Kuper. Variable Independence and Aggregation Closure. In *Proceedings of the ACM Symposium on Principles of Database Systems (PODS)*, pages 40–48, Montréal, Canada, June 1996.
- [Chomicki *et al.*, 2001] J. Chomicki, D. Toman, and M. H. Böhlen. Querying ATSQL Databases with Temporal Logic. *ACM Transactions on Database Systems*, 26(2):145–178, 2001.
- [Chomicki *et al.*, 2003a] J. Chomicki, D. Goldin, G. Kuper, and D. Toman. Variable Independence in Constraint Databases. *IEEE Transactions on Knowledge and Data Engineering*, 15(6):1422–1436, 2003.
- [Chomicki *et al.*, 2003b] J. Chomicki, G. Saake, and R. van der Meyden, editors. *Logics for Emerging Applications of Databases*. Springer, 2003.
- [Chomicki, 1994] J. Chomicki. Temporal Query Languages: A Survey. In Gabbay, D. and Ohlbach, H., editor, *First International Conference on Temporal Logic (TIME)*, volume 827 of *Lecture Notes in Artificial Intelligence*. Springer Verlag, 1994.
- [Chomicki, 1995] J. Chomicki. Efficient Checking of Temporal Integrity Constraints Using Bounded History Encoding. *ACM Transactions on Database Systems*, 20(2):149–186, June 1995.
- [Choueka, 1974] Y. Choueka. Theories of Automata on ω -Tapes: A Simplified Approach. *Journal of Computer and System Sciences*, 8:117–141, 1974.
- [Ciapessoni *et al.*, 1993] E. Ciapessoni, E. Corsetti, A. Montanari, and P. San Pietro. Embedding Time Granularity in a Logical Specification Language for Synchronous Real-Time Systems. *Science of Computer Programming*, 20(1):141–171, 1993.
- [Cimatti and Roveri, 1999] A. Cimatti and M. Roveri. Conformant Planning via Model Checking. In *Proceedings of European Conference on Planning (ECP)*, pages 21–34, 1999.
- [Cimatti and Roveri, 2000] A. Cimatti and M. Roveri. Conformant Planning via Symbolic Model Checking. *Journal of AI Research*, 13:305–338, 2000.
- [Cimatti *et al.*, 1998a] A. Cimatti, F. Giunchiglia, and R. W. Weyhrauch. A Many-Sorted Natural Deduction. *Computational Intelligence*, 14:134–149, 1998.
- [Cimatti *et al.*, 1998b] A. Cimatti, M. Roveri, and P. Traverso. Automatic OBDD-Based Generation of Universal Plans in Non-Deterministic Domains. In *Proceedings of AAAI*, pages 875–881, 1998.
- [Citrigno *et al.*, 1997] S. Citrigno, T. Eiter, W. Faber, G. Gottlob, C. Koch, N. Leone, C. Mateis, G. Pfeifer, and F. Scarcello. The DLV System: Model Generator and Application Front Ends. In *Proceedings of the Twelfth Workshop on Logic Programming*, pages 128–137, 1997.
- [Clancey, 1985] W.J. Clancey. Heuristic Classification. *Artificial Intelligence*, 27(3):289–350, 1985.
- [Clark, 1978] Keith L. Clark. Negation as Failure. In H. Gallaire and J. Minker, editors, *Logic and Databases*, pages 293–322. Plenum Press, 1978.
- [Clarke and Emerson, 1981a] E. Clarke and E. Emerson. Synthesis of Synchronization Skeletons for Branching Time Temporal Logic. In *Proceedings of IBM Workshop on Logic of Programs*, pages 52–71, Yorktown Heights, USA, 1981. Springer, Berlin.
- [Clarke and Emerson, 1981b] E.M. Clarke and E.A. Emerson. Design and Synthesis of Synchronization Skeletons using Branching Time Temporal Logic. In D. Kozen, editor, *Workshop on Logics of Programs*, volume 131 of *Lecture Notes in Computer Science*, pages 52–71. Springer-Verlag, 1981.
- [Clarke and Schlingloff, 2001] E.M. Clarke and B.-H. Schlingloff. Model Checking. In A. Robinson and A. Voronkov, editors, *Handbook of Automated Reasoning*, pages 1635–1790. North-Holland, 2001.
- [Clarke *et al.*, 1983] E.M. Clarke, E.A. Emerson, and A.P. Sistla. Automatic Verification of Finite State Concurrent Systems Using Temporal Logic Specifications: A Practical Approach. In *Proceedings of International Symposium on Principles of Programming Languages (POPL)*, pages 117–126. ACM Press, 1983.

- [Clarke *et al.*, 1986] E.M. Clarke, E.A. Emerson, and A.P. Sistla. Automatic Verification of Finite State Concurrent Systems Using Temporal Logic Specifications. *ACM Transactions on Programming Languages and Systems*, 8(2):244–263, 1986.
- [Clarke *et al.*, 1999] E. M. Clarke, O. Grumberg, and D. A. Peled. *Model Checking*. MIT Press, 1999.
- [Clifford and Rao, 1988] J. Clifford and A. Rao. A Simple General Structure for Temporal Domains. In *Temporal Aspects of Information Systems*, pages 17–28. Elsevier, Amsterdam (NL), 1988.
- [Clifford *et al.*, 1993] J. Clifford, A. Croker, and A. Tuzhilin. On the Completeness of Query Languages for Grouped and Ungrouped Historical Data Models. In Tansel, A. et. al., editor, *Temporal Databases: Theory, Design and Implementation*, chapter 20, pages 496–533. Benjamin/Cummings Pub. Co., 1993.
- [Clifford *et al.*, 1994] J. Clifford, A. Croker, and A. Tuzhilin. On Completeness of Historical Relational Query Languages. *ACM Transactions on Database Systems*, 19(1):64–116, March 1994.
- [Codd, 1971] E. F. Codd. Normalized Data Structure: A Brief Tutorial. In E. F. Codd and A. L. Dean, editors, *Proceedings of ACM-SIGFIDET Workshop on Data Description, Access and Control*, pages 1–17, San Diego, USA, 1971. ACM.
- [Codd, 1972] E. F. Codd. Relational Completeness of Data Base Sub-Languages. In R. Rustin, editor, *Data Base Systems*, pages 33–64. Prentice-Hall, 1972.
- [Cohen and Levesque, 1990] P. R. Cohen and H. J. Levesque. Intention is Choice with Commitment. *Artificial Intelligence*, 42:213–261, 1990.
- [Cohen *et al.*, 1997] D. Cohen, P. Jeavons, and M. Koubarakis. Tractable disjunctive constraints. In *Proceedings of Constraint Programming (CP)*, volume 1330 of *Lecture Notes in Computer Science*, pages 478–490, Linz, Austria, 1997.
- [Cohen *et al.*, 2000] D. Cohen, P. Jeavons, P. Jonsson, and M. Koubarakis. Building Tractable Disjunctive Constraints. *Journal of the ACM*, 47(5):826–853, 2000.
- [Cohn, 1987] A.G. Cohn. A More Expressive Formulation of Many Sorted Logics. *Journal of Automated Reasoning*, 3(2):113–200, 1987.
- [Combi *et al.*, 1994] C. Combi, F. Pinciroli, G. Musazzi, and C. Ponti. Managing and Displaying Different Time Granularities of Clinical Information. In J.G. Ozbolt, editor, *Proceedings of Eighteenth Annual Symposium on Computer Applications in Medical Care (SCAMC)*, pages 954–958, Philadelphia, USA, 1994. Hanley & Belfus.
- [Combi *et al.*, 1995] C. Combi, F. Pinciroli, M. Cavallaro, and G. Cucchi. Querying Temporal Clinical Databases with Different Time Granularities: the GCH-OSQL Language. In *Proceedings of the Annual Symposium on Computer Applications in Medical Care (SCAMC)*, pages 326–330, New-Orleans, USA, 1995.
- [Combi *et al.*, 2004] C. Combi, M. Franceschet, and A. Peron. Representing and Reasoning about Temporal Granularities. *Journal of Logic and Computation*, 14(1):51–77, 2004.
- [Comrie, 1976] B. Comrie. *Aspect: an Introduction to the Study of Verbal Aspect and Related Problems*. Cambridge University Press, Cambridge, 1976.
- [Condotta, 2000] J-F. Condotta. The Augmented Interval and Rectangle Networks. In A. G. Cohn, F. Giunchiglia, and B. Selman, editors, *Proceedings of the Seventh International Conference on Principles of Knowledge Representation and Reasoning (KR)*, pages 571–579, Breckenridge, CO, USA, April 2000. Morgan Kaufmann.
- [Console and Terenziani, 1999] L. Console and P. Terenziani. Efficient Processing of Queries and Assertions about Qualitative and Quantitative Temporal Constraints. *Computational Intelligence*, 15(4):442–465, 1999.

- [Console and Torasso, 1991a] L. Console and P. Torasso. A Spectrum of Logical Definitions of Model-Based Diagnosis. *Computational Intelligence*, 7:133–141, 1991.
- [Console and Torasso, 1991b] L. Console and P. Torasso. On the Co-operation Between Abductive and Temporal Reasoning in Medical Diagnosis. *Artificial Intelligence in Medicine*, 3:291–311, 1991.
- [Console *et al.*, 1991] L. Console, D. Theseider Dupre, and P. Torasso. On the Relationship Between Abduction and Deduction. *Journal of Logic and Computation*, 1(5):661–690, 1991.
- [Cooper, 1990] G. Cooper. The Computational Complexity of Probabilistic Inference using Bayesian Belief Networks. *Artificial Intelligence*, 42, 1990.
- [Cormen *et al.*, 1990] T.H. Cormen, C.E. Leiserson, and R.L. Rivest. *Introduction to Algorithms*. MIT Press, 1990.
- [Corsetti *et al.*, 1991a] E. Corsetti, E. Crivelli, D. Mandrioli, A. Montanari, A. Morzenti, P. San Pietro, and E. Ratto. Dealing with Different Time Scales in Formal Specifications. In *International Workshop on Software Specification and Design*, pages 92–101, 1991.
- [Corsetti *et al.*, 1991b] E. Corsetti, A. Montanari, and E. Ratto. Dealing with Different Time Granularities in Formal Specifications of Real-Time Systems. *Journal of Real-Time Systems*, 3(2):191–215, 1991.
- [Cousins and Kahn, 1991] S.B. Cousins and M.G. Kahn. The Visual Display of Temporal Information. *Artificial Intelligence in Medicine*, 3(6):341–357, 1991.
- [Cowell *et al.*, 1999] R.C. Cowell, A.P. Dawid, S.L. Lauritzen, and D.J. Spiegelhalter. *Probabilistic Networks and Expert Systems*. Springer-Verlag, New York, 1999.
- [Culik II *et al.*, 1984] K. Culik II, A. Salomaa, and D. Wood. Systolic Tree Acceptors. *R.A.I.R.O Informatique Théorique*, 18:53–69, 1984.
- [Dagum and Galper, 1993] P. Dagum and A. Galper. Forecasting Sleep Apnea with Dynamic Network Models. In *Proceedings of Conference on Uncertainty in Artificial Intelligence (UAI)*, pages 64–71, 1993.
- [Dal Lago and Montanari, 2001] U. Dal Lago and A. Montanari. Calendars, Time Granularities, and Automata. In *Proceedings of the International Symposium on Spatial and Temporal Databases*, volume 2121 of *Lectures Notes on Computer Science*, pages 279–298, Los Angeles, USA, 2001.
- [Dal Lago *et al.*, 2003a] U. Dal Lago, A. Montanari, and G. Puppis. Time Granularities, Calendar Algebra, and Automata. Technical Report 4, Dipartimento di Matematica e Informatica, Università di Udine, Italy, February 2003.
- [Dal Lago *et al.*, 2003b] U. Dal Lago, A. Montanari, and G. Puppis. Towards Compact and Tractable Automaton-based Representations of Time Granularity. In *Proceedings of the Eighth Italian Conference on Theoretical Computer Science (ICTCS)*, volume 2841 of *LNCS*, pages 72–85. Springer, October 2003.
- [Das and Musen, 1994] A.K. Das and M.A. Musen. A Temporal Query System for Protocol-Directed Decision Support. *Methods of Information in Medicine*, 33:358–370, 1994.
- [Date *et al.*, 2003] C. J. Date, H. Darwen, and N. A. Lorentzos. *Temporal Data and the Relational Model*. Morgan Kaufman, 2003.
- [Davidson, 1967] D. Davidson. The Logical Form of Action Sentences. In N. Rescher, editor, *The Logic of Decision and Action*. University of Pittsburgh Press, 1967.
- [Davidson, 1969] D. Davidson. The Individuation of Events. In N. Rescher, editor, *Essays in Honor of Carl G. Hempel*. D. Reidel, Dordrecht, 1969. (Reprinted in D. Davidson, *Essays on Actions and Events*, Oxford, Clarendon Press, 1980, pages 163–180).

- [Davis, 1992] E. Davis. Infinite Loops in Finite Time: Some Observations. In *Proceedings of the Third International Conference on Principles of Knowledge Representation and Reasoning (KR)*, pages 47–58. Morgan-Kaufmann, 1992.
- [Dawid, 1992] A. P. Dawid. Applications of a General Propagation Algorithm for Probabilistic Expert Systems. *Statistics and Computing*, 2:25–36, 1992.
- [de Zegher-Geets *et al.*, 1988] I.M. de Zegher-Geets, A.G. Freeman, M.G. Walker, R.L. Blum, and G. Wiederhold. Summarization and Display of On-Line Medical Records. *M.D. Computing*, 5:38–46, 1988.
- [Dean and Boddy, 1988] T. Dean and M. Boddy. Reasoning About Partially Ordered Events. *Artificial Intelligence*, 36:375–399, 1988.
- [Dean and Kanazawa, 1989] T. Dean and K. Kanazawa. A Model for Reasoning about Persistence and Causation. *Computational Intelligence*, 5:142–150, 1989.
- [Dean and McDermott, 1987] T. Dean and D.V. McDermott. Temporal Data Base Management. *Artificial Intelligence*, 32:1–55, 1987.
- [Dean, 1989] T. Dean. Using Temporal Hierarchies to Efficiently Maintain Large Temporal Databases. *Journal of ACM*, 36(4):687–718, 1989.
- [Dechter *et al.*, 1989] R. Dechter, I. Meiri, and J. Pearl. Temporal Constraint Networks. In R. Brachman, H. Levesque, and R. Reiter, editors, *Proceedings of First International Conference on Principles of Knowledge Representation and Reasoning (KR)*, pages 83–93, Toronto, Canada, 1989.
- [Dechter *et al.*, 1991] R. Dechter, I. Meiri, and J. Pearl. Temporal Constraint Networks. *Artificial Intelligence*, 49(1-3):61–95, 1991. Special Volume on Knowledge Representation.
- [Dechter, 1992] R. Dechter. From Local to Global Consistency. *Artificial Intelligence*, 55:87–107, 1992.
- [Degtyarev *et al.*, 2003] A. Degtyarev, M. Fisher, and B. Konev. Monodic Temporal Resolution. In *Proceedings of Conference on Automated Deduction (CADE)*, Lecture Notes in Computer Science. Springer, July 2003.
- [Delgrande and Gupta, 1996] J.P. Delgrande and A. Gupta. A Representation for Efficient Temporal Reasoning. In *Proceedings of the Thirteenth National Conference of the American Association for Artificial Intelligence (AAAI)*, pages 381–388, Portland, OR, 1996.
- [Delgrande and Gupta, 2002] J.P. Delgrande and A. Gupta. Updating $\leq, <$ -Chains. *Information Processing Letters*, 83(5):261–268, 2002.
- [Delgrande *et al.*, 1999] J.P. Delgrande, A. Gupta, and T. Van Allen. Point Based Approaches to Qualitative Temporal Reasoning. In *Proceedings of AAAI Conference*, pages 739–744, 1999.
- [Delgrande *et al.*, 2001] J. Delgrande, A. Gupta, and T. Van Allen. A Comparison of Point-based Approaches to Qualitative Temporal Reasoning. *Artificial Intelligence*, 131:135–170, 2001.
- [Dembinski and Maluszynski, 1985] P. Dembinski and J. Maluszynski. AND-Parallelism with Intelligent Backtracking for Annotated Logic Programs. In V. Saraswat and K. Ueda, editors, *Proceedings of the International Symposium on Logic Programming (ILPS)*, pages 25–38, 1985.
- [Demri, 2004] S. Demri. LTL over Integer Periodicity Constraints (Extended Abstract). In *Proceedings of the Seventh International Conference on Foundations of Software Science and Computation Structures (FOSSACS)*, volume 2987 of *Lecture Notes in Computer Science*, pages 121–135, Heidelberg, Germany, 2004. Springer-Verlag.
- [Denecker and De Schreye, 1992] M. Denecker and D. De Schreye. SLDNFA: an Abductive Procedure for Normal Abductive Programs. In K.R. Apt, editor, *Proceedings of the International Joint Conference and Symposium on Logic Programming*, pages 686–700. MIT Press, 1992.

- [Denecker and De Schreye, 1993] M. Denecker and D. De Schreye. Representing incomplete Knowledge in Abductive Logic Programming. In *Proceedings of International Logic Programming Symposium (ILPS)*, pages 147–164, Vancouver, Canada, 1993.
- [Denecker and De Schreye, 1998] M. Denecker and D. De Schreye. SLDNFA: an Abductive Procedure for Abductive Logic Programs. *Journal of Logic Programming*, 34(2):111–167, 1998.
- [Denecker *et al.*, 1992] M. Denecker, L. Missiaen, and M. Bruynooghe. Temporal reasoning with Abductive Event Calculus. In *Proceedings of the European Conference on Artificial Intelligence (ECAI)*. John Wiley and sons, 1992.
- [Denecker *et al.*, 1996] M. Denecker, K. Van Belleghem, G. Duchatelet, F. Piessens, and D. De Schreye. A Realistic Experiment in Knowledge Representation Using Open Event Calculus: Protocol Specification. In M. Maher, editor, *Proceedings of the International Joint Conference and Symposium on Logic Programming*, pages 170–184. MIT Press, 1996.
- [Denecker, 1993] M. Denecker. *Knowledge Representation and Reasoning in Incomplete Logic Programming*. PhD thesis, Department of Computer Science, K.U.Leuven, 1993.
- [Denecker, 1995] M. Denecker. A Terminological Interpretation of (Abductive) Logic Programming. In V.W. Marek, A. Nerode, and M. Truszczynski, editors, *International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR)*, volume 928 of *Lecture Notes in Artificial Intelligence*, pages 15–29. Springer, 1995.
- [Dettori and Puppo, 1996] G. Dettori and E. Puppo. How Generalization Interacts with the Topological and Metric Structure of Maps. In *Proceedings of International Symposium on Spatial Data Handling*, pages 27–38, 1996.
- [Devanbu and Litman, 1996] P. T. Devanbu and D. J. Litman. Taxonomic Plan Reasoning. *Artificial Intelligence*, 84:1–35, 1996.
- [Devogele *et al.*, 1996] T. Devogele, J. Trevisan, and L. Raynal. Building a Multi-Scale Database with Scale-Transition Relationship. In *Proceedings of International Symposium on Spatial Data Handling*, 1996.
- [Dexter *et al.*, 2001] P.R. Dexter, S. Perkins, M.J. Overhage, K. Maharry, R.B. Kohler, and C.J. McDonald. A Computerized Reminder System to Increase the use of Preventive Care for Hospitalized Patients. *New England Journal of Medicine*, 345(13):965–970, 2001.
- [Dimopoulos *et al.*, 1997] Y. Dimopoulos, B. Nebel, and J. Koehler. Encoding Planning Problems in Non-Monotonic Logic Programs. In *Proceedings of European Conference on Planning (ECP)*, pages 169–181, 1997.
- [Dix, 1991] J. Dix. Classifying Semantics of Logic Programs. In *Proceedings of International Workshop in Logic Programming and Nonmonotonic Reasoning (LPNMR)*, pages 166–180, Washington D.C., USA, 1991.
- [Dixon *et al.*, 1998] C. Dixon, M. Fisher, and M. Wooldridge. Resolution for Temporal Logics of Knowledge. *Journal of Logic and Computation*, 8(3):345–372, 1998.
- [Dixon, 1996] C. Dixon. Search Strategies for Resolution in Temporal Logics. In M. A. McRobbie and J. K. Slaney, editors, *Proceedings of the Thirteenth International Conference on Automated Deduction (CADE)*, volume 1104 of *Lecture Notes in Artificial Intelligence*, pages 672–687, New Brunswick, USA, July/August 1996. Springer-Verlag.
- [Dixon, 1998] C. Dixon. Temporal Resolution using a Breadth-First Search Algorithm. *Annals of Mathematics and Artificial Intelligence*, 22:87–115, 1998.
- [Dixon, 2000] C. Dixon. Using Otter for Temporal Resolution. In *Advances in Temporal Logic*, volume 16 of *Applied Logic Series*, pages 149–166. Kluwer, 2000. (Proceedings the Second International Conference on Temporal Logic (ICTL)).

- [Do and Kambhampati, 2001] M. Binh Do and S. Kambhampati. Sapa: a Domain-Independent Heuristic Metric Temporal Planner. In *Proceedings of European Conference on Planning (ECP)*, 2001.
- [Doner, 1970] J. Doner. Tree Acceptors and Some of their Applications. *Journal of Computer and System Sciences*, 4:406–451, 1970.
- [Donini *et al.*, 1996] F. M. Donini, M. Lenzerini, D. Nardi, and A. Schaerf. Reasoning in Description Logics. In G. Brewka, editor, *Principles of Knowledge Representation*, pages 191–236. CSLI Publications, Stanford, California, 1996.
- [Doucet *et al.*, 2001] A. Doucet, N. DeFreitas, and N. Gordon. *Sequential Monte Carlo Methods in Practice*. Springer-Verlag, New York, 2001.
- [Downes *et al.*, 1986] S.M. Downes, M.G. Walker, and R.L. Blum. Automated Summarization of On-line Medical Records. In R. Salamon, B. Blum, and M. Jorgensen, editors, *Proceedings of the Fifth Conference on Medical Informatics (MEDINFO)*, pages 800–804, Amsterdam, NL, 1986. North-Holland.
- [Dowty, 1979] D. Dowty. *Word Meaning and Montague Grammar*. Kluwer Academic Publishers, Dordrecht, 1979.
- [Drabble and Tate, 1994] B. Drabble and A. Tate. The Use of Optimistic and Pessimistic Resource Profiles to Inform Search in an Activity Based Planner. In *Proceedings of the Second Conference on AI Planning Systems (AIPS)*. AAAI Press, 1994.
- [Drabble, 1993] B. Drabble. EXCALIBUR: A Program for Planning and Reasoning with Processes. *Artificial Intelligence*, 62(1):1–40, 1993.
- [Drakengren and Jonsson, 1997a] T. Drakengren and P. Jonsson. Eight maximal tractable subclasses of Allen’s algebra with metric time. *Journal of Artificial Intelligence Research*, 7:25–45, 1997.
- [Drakengren and Jonsson, 1997b] T. Drakengren and P. Jonsson. Twenty-One Large Tractable Subclasses of Allen’s Algebra. *Artificial Intelligence*, 93(1–2):297–319, 1997.
- [Drakengren and Jonsson, 1998] T. Drakengren and P. Jonsson. A Complete Classification of Allen’s Algebra Relative to Subsets Of Basic Relations. *Artificial Intelligence*, 106(2):205–219, 1998.
- [Dung, 1993] P. Dung. Representing Actions in Logic Programming and its Application in Database Updates. In D. S. Warren, editor, *Proceedings of International Conference on Logic Programming (ICLP)*, pages 222–238, 1993.
- [Durfee, 1988] E. H. Durfee. *Coordination of Distributed Problem Solvers*. Kluwer, 1988.
- [Dvorak and Kuipers, 1989] D. Dvorak and B. Kuipers. Model-Based Monitoring of Dynamic Systems. In *Proceedings of the Eleventh International Joint Conference on Artificial Intelligence (IJCAI)*, pages 1238–1243, San Mateo, CA, 1989. Morgan Kaufmann.
- [Dyreson and Snodgrass, 1994] C. Dyreson and R. Snodgrass. Temporal Granularity and Indeterminacy: Two Sides of the Same Coin. Technical Report 6, University of Arizona, Tucson, USA, 1994.
- [Edelkamp and Helmert, 2000] S. Edelkamp and M. Helmert. On the Implementation of MIPS. In *Proceedings of Workshop on Decision-Theoretic Planning, Artificial Intelligence Planning and Scheduling (AIPS)*, pages 18–25. AAAI-Press, 2000.
- [Egenhofer and Franzosa, 1991] M. Egenhofer and R. Franzosa. Point Set Topological Spatial Relations. *International Journal of Geographical Information Systems*, 5(2):161–174, 1991.
- [Eiter *et al.*, 2000a] T. Eiter, W. Faber, G. Gottlob, C. Koch, C. Mateis, N. Leone, G. Pfeifer, and F. Scarcello. The DLV System. In J. Minker, editor, *Pre-prints of Workshop on Logic-Based AI*, 2000.

- [Eiter *et al.*, 2000b] T. Eiter, W. Faber, N. Leone, and G. Pfeifer. Declarative problem solving in DLV. In J. Minker, editor, *Logic Based Artificial Intelligence*, pages 79–103. Kluwer Academic Publishers, 2000.
- [Elgot and Rabin, 1966] C. Elgot and M. Rabin. Decidability and Undecidability of Second (First) Order Theory of Generalized Successor. *Journal of Symbolic Logic*, 31:169–181, 1966.
- [Elgot, 1961] C. Elgot. Decision Problems for Finite Automata Design and Related Arithmetics. *Trans. Amer. Math. Soc.*, 98:21–52, 1961.
- [Emerson and Clarke, 1982] E. Emerson and E. C. Clarke. Using Branching Time Temporal Logic to Synthesise Synchronisation Skeletons. *Science of Computer Programming*, 2, 1982.
- [Emerson and Halpern, 1985] E. Emerson and J. Halpern. Decision Procedures and Expressiveness in the Temporal Logic of Branching Time. *Journal of Computer and System Sciences*, 30(1):1–24, 1985.
- [Emerson and Halpern, 1986] E. Emerson and J. Halpern. ‘Sometimes’ and ‘Not Never’ Revisited: on Branching versus Linear Time. *Journal of the ACM*, 33, 1986.
- [Emerson and Jutla, 1988] E. Emerson and C. Jutla. Complexity of Tree Automata and Modal Logics of Programs. In *Proceedings of the Twenty Ninth IEEE Conference on Foundations of Computer Science (FOCS)*. IEEE, 1988.
- [Emerson and Lei, 1985] E. Emerson and C. Lei. Modalities for Model Checking: Branching Time Strikes Back. In *Proceedings of the Twelfth Symposium on Principles of Programming Languages (POPL)*, pages 84–96, 1985.
- [Emerson and Sistla, 1984] E. Emerson and A. Sistla. Deciding Full Branching Time Logic. *Information and Control*, 61(3):175 – 201, 1984.
- [Emerson, 1985] E. Emerson. Automata, Tableaux and Temporal Logics. In *Proceedings of the Workshop on Logics of Programs*, Brooklyn, USA, 1985.
- [Emerson, 1990] E.A. Emerson. Temporal and modal logic. In J. van Leeuwen, editor, *Handbook of Theoretical Computer Science: Formal Models and Semantics*, chapter 16, pages 995–1072. Elsevier Science Publishers, 1990.
- [Emerson, 1996] E. Emerson. Automated Temporal Reasoning for Reactive Systems. In F. Moller and G. Birtwistle, editors, *Logics for Concurrency*, pages 41–101. Springer Verlag, 1996.
- [Enderton, 1972] H. B. Enderton. *A Mathematical Introduction To Logic*. Academic Press, 1972.
- [Endriss, 2003] U. Endriss. *Modal Logics of Ordered Trees*. PhD thesis, Department of Computer Science, King’s College London, 2003.
- [Erdem and Lifschitz, 1999] E. Erdem and V. Lifschitz. Transformations of Logic Programs Related to Causality and Planning. In *Proceedings of Logic Programming and Non-Monotonic Reasoning (LPNMR)*, pages 107–116, 1999.
- [Eshghi and Kowalski, 1989] K. Eshghi and R.A. Kowalski. Abduction Compared with Negation as Failure. In *Proceedings of the International Conference on Logic Programming (ICLP)*. MIT-Press, 1989.
- [Eshghi, 1988a] K. Eshghi. Abductive Planning with Event Calculus. In R.A. Kowalski and K.A. Bowen, editors, *Proceedings of the Fifth International Conference and Symposium on Logic Programming*, pages 562–579, Cambridge, MA, 1988. MIT Press.
- [Eshghi, 1988b] K. Eshghi. Abductive Planning with Event Calculus. In *Proceedings of International Conference on Logic Programming (ICLP)*, 1988.
- [Euzenat, 1993] J. Euzenat. Représentation Granulaire du Temps. *Revue d’Intelligence Artificielle*, 7(3):329–361, 1993.

- [Euzenat, 1995a] J. Euzenat. A Categorical Approach to Time Representation: First Study on Qualitative Aspects. In *Proceedings of the IJCAI Workshop on Spatial and Temporal Reasoning*, pages 145–152, 1995.
- [Euzenat, 1995b] J. Euzenat. An Algebraic Approach to Granularity in Qualitative Space and Time Representation. In *Proceedings of International Joint Conference on Artificial Intelligence (IJCAI)*, pages 894–900, 1995.
- [Euzenat, 2001] J. Euzenat. Granularity in Relational Formalisms with Application to Time and Space Representation. *Computational Intelligence*, 17(4):703–737, 2001.
- [Evans, 1989] C. Evans. Negation-as-Failure as an Approach to the Hanks and McDermott Problem. In *Proceedings of the Second International Symposium on Artificial Intelligence*, 1989.
- [Fagan *et al.*, 1984] M. Fagan, J. C. Kunz, E. A. Feigenbaum, and J. J. Osborn. Extensions to the Rule-Based Formalism for a Monitoring Task. In Buchanan and Shortliffe [1984], pages 397–423.
- [Fagin *et al.*, 1996] R. Fagin, J. Halpern, Y. Moses, and M. Vardi. *Reasoning About Knowledge*. MIT Press, 1996.
- [Ferrante and Geiser, 1977] J. Ferrante and J.R. Geiser. An Efficient Decision Procedure for the Theory of Rational Order. *Theoretical Computer Science*, 4(2):227–233, 1977.
- [Ferrante and Rackoff, 1975] J. Ferrante and C. Rackoff. A Decision Procedure for the First Order Theory of Real Addition with Order. *SIAM Journal on Computing*, 4(1):69–76, 1975.
- [Ferrante and Rackoff, 1979] J. Ferrante and C. Rackoff. *The Computational Complexity of Logical Theories*. Lecture Notes in Mathematics. Springer Verlag, 1979.
- [Fiadeiro and Maibaum, 1994] J. L. Fiadeiro and T. Maibaum. Sometimes “tomorrow” is “sometime”: Action Refinement in a Temporal Logic of Objects. *Lecture Notes in Computer Science*, 827:48–66, 1994.
- [Fikes and Nilsson, 1971] R.E. Fikes and N.J. Nilsson. STRIPS: A New Approach to the Application of Theorem-Proving to Problem-Solving. *Artificial Intelligence*, 2(3):189–208, 1971.
- [Finger and Gabbay, 1992] M. Finger and D.M. Gabbay. Adding a Temporal Dimension to a Logic System. *Journal of Logic, Language, and Information*, 1(3):203–233, 1992.
- [Finger and Gabbay, 1996] M. Finger and D. Gabbay. Combining Temporal Logic Systems. *Notre Dame Journal of Formal Logic*, 37:204–232, 1996.
- [Fischer and Rabin, 1974] M.J. Fischer and M.O. Rabin. Super-exponential Complexity of Presburger Arithmetic. In *Proceedings of the AMS Symposium on Complexity of Real Computational Processes*, volume III, 1974.
- [Fisher and Ghidini, 1999] M. Fisher and C. Ghidini. Programming Resource-Bounded Deliberative Agents. In *Proceedings of International Joint Conference on Artificial Intelligence (IJCAI)*. Morgan Kaufmann, 1999.
- [Fisher and Ghidini, 2002] M. Fisher and C. Ghidini. The ABC of Rational Agent Programming. In *Proceedings of the First International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS)*, pages 849–856. ACM Press, July 2002.
- [Fisher and Kakoudakis, 1999] M. Fisher and T. Kakoudakis. Flexible Agent Grouping in Executable Temporal Logic. In *Proceedings of Twelfth International Symposium on Languages for Intensional Programming (ISLIP)*. World Scientific Press, 1999.
- [Fisher and Owens, 1992] M. Fisher and R. Owens. From the Past to the Future: Executing Temporal Logic Programs. In *Proceedings of Logic Programming and Automated Reasoning (LPAR)*, volume 624 of *Lecture Notes in Computer Science*, St. Petersburg, Russia, July 1992. Springer-Verlag.

- [Fisher and Owens, 1995a] M. Fisher and R. Owens. An Introduction to Executable Modal and Temporal Logics. In *Executable Modal and Temporal Logics*, volume 897 of *Lecture Notes in Artificial Intelligence*, pages 1–20, Heidelberg, Germany, 1995. Springer-Verlag.
- [Fisher and Owens, 1995b] M. Fisher and R. Owens, editors. *Executable Modal and Temporal Logics*, volume 897 of *Lecture Notes in Artificial Intelligence*. Springer-Verlag, February 1995.
- [Fisher and Wooldridge, 1997] M. Fisher and M. Wooldridge. On the Formal Specification and Verification of Multi-Agent Systems. *International Journal of Cooperative Information Systems*, 6(1):37–65, January 1997.
- [Fisher *et al.*, 2001] M. Fisher, C. Dixon, and M. Peim. Clausal Temporal Resolution. *ACM Transactions on Computational Logic*, 2(1):12–56, January 2001.
- [Fisher *et al.*, 2003] M. Fisher, C. Ghidini, and B. Hirsch. Organising logic-based agents. In M. Hinchey, J. Rash, W. Truszkowski, C. Rouff, and D. Gordon-Spears, editors, *Proceedings of Second International Workshop on Formal Approaches to Agent-Based Systems (FAABS)*, volume 2699 of *Lecture Notes in Computer Science*, pages 15–27, Greenbelt, USA, October 2003. Springer.
- [Fisher, 1991] M. Fisher. A Resolution Method for Temporal Logic. In *Proceedings of the Twelfth International Joint Conference on Artificial Intelligence (IJCAI)*, Sydney, Australia, 1991. Morgan Kaufman.
- [Fisher, 1993] M. Fisher. Concurrent METATEM — A Language for Modeling Reactive Systems. In *Parallel Architectures and Languages, Europe (PARLE)*, volume 694 of *Lecture Notes in Computer Science*, Munich, Germany, June 1993. Springer-Verlag.
- [Fisher, 1994] M. Fisher. A Survey of Concurrent METATEM — The Language and its Applications. In *First International Conference on Temporal Logic (ICTL)*, volume 827 of *Lecture Notes in Computer Science*, Bonn, Germany, July 1994. Springer-Verlag.
- [Fisher, 1996a] M. Fisher. A Temporal Semantics for Concurrent METATEM. *Journal of Symbolic Computation*, 22(5/6), November/December 1996.
- [Fisher, 1996b] M. Fisher. An Introduction to Executable Temporal Logics. *Knowledge Engineering Review*, 11(1):43–56, March 1996.
- [Fisher, 1997a] M. Fisher. A Normal Form for Temporal Logic and its Application in Theorem-Proving and Execution. *Journal of Logic and Computation*, 7(4), July 1997.
- [Fisher, 1997b] M. Fisher. Implementing BDI-like Systems by Direct Execution. In *Proceedings of International Joint Conference on Artificial Intelligence (IJCAI)*. Morgan-Kaufmann, 1997.
- [Fisher, 2004] M. Fisher. Temporal Development Methods for Agent-Based Systems. To appear in *Journal of Autonomous Agents and Multi-Agent Systems*, 2004.
- [Fitting, 1983] M. Fitting. *Proof Methods for Modal and Intuitionistic Logics*. Reidel, 1983.
- [Forbus, 1989] K. Forbus. Introducing Actions into Qualitative Simulation. In *Proceedings of International Joint Conference on Artificial Intelligence (IJCAI)*, pages 1273–1278. Morgan Kaufmann, 1989.
- [Fox and Long, 1996] M. Fox and D. Long. An Efficient Algorithm for Managing Partial Orders in Planning. *ACM SIGART Bulletin*, 7(4):3–12, 1996.
- [Fox and Long, 2002a] M. Fox and D. Long. PDDL+ : Planning with Time and Metric Resources. Technical Report Department of Computer Science, Durham University, UK, 2002.
- [Fox and Long, 2002b] M. Fox and D. Long. PDDL+: Modelling Continuous Time-dependent Effects. In *Proceedings of the Third International NASA Workshop on Planning and Scheduling for Space*, 2002.
- [Fox and Long, 2003] M. Fox and D. Long. PDDL2.1: An extension to PDDL for expressing temporal planning domains. *Journal of AI Research*, 20, 2003.

- [Fox *et al.*, 1998] J. Fox, N. Johns, and A. Rahmzadeh. Disseminating medical knowledge: the *proforma* approach. *Artificial Intelligence in Medicine*, 14:157–181, 1998.
- [Franceschet and Montanari, 2001a] M. Franceschet and A. Montanari. A Combined Approach to Temporal Logics for Time Granularity. In *Proceedings of the Second International Workshop on Methods for Modalities (M4M)*, 2001.
- [Franceschet and Montanari, 2001b] M. Franceschet and A. Montanari. Towards an Automata-Theoretic Counterpart of Combined Temporal Logics. In *Proceedings of the Second International Workshop on Verification and Computational Logic*, pages 55–74, 2001.
- [Franceschet and Montanari, 2003] M. Franceschet and A. Montanari. Branching Within Time: An Expressively Complete and Elementarily Decidable Temporal Logic for Time Granularity. *Research on Language and Computation*, 1(3-4):229–263, 2003.
- [Franceschet and Montanari, 2004] M. Franceschet and A. Montanari. Temporalized Logics and Automata for Time Granularity. *Theory and Practice of Logic Programming*, 4(5-6):621–658, 2004.
- [Franceschet *et al.*, 2003] M. Franceschet, A. Montanari, A. Peron, and G. Sciavicco. Definability and Decidability of Binary Predicates for Time Granularity. In *Proceedings of the Tenth International Symposium on Temporal Representation and Reasoning and of the Fourth International Conference on Temporal Logic (TIME-ICTL)*, pages 192–202. IEEE Computer Society Press, 2003.
- [Franceschet *et al.*, 2004] M. Franceschet, A. Montanari, and M. de Rijke. Model Checking for Combined Logics with an Application to Mobile Systems. *Automated Software Engineering*, 11(3):287–319, 2004.
- [Franceschet, 2002] M. Franceschet. *Dividing and Conquering the Layered Land*. PhD thesis, Department of Mathematics and Computer Science, University of Udine, Udine, Italy, 2002.
- [Franconi and Toman, 2003] E. Franconi and D. Toman. Fixpoint Extensions of Temporal Description Logics. In *Proceedings of Workshop on Description Logics (DL)*, volume 81 of *CEUR-WS*, pages 160–167, 2003.
- [Franklin and Graesser, 1996] S. Franklin and A. Graesser. Is it an Agent, or just a Program?: A Taxonomy for Autonomous Agents. In J. P. Müller, M. J. Wooldridge, and N. R. Jennings, editors, *Intelligent Agents III — Proceedings of the Third International Workshop on Agent Theories, Architectures, and Languages (ATAL)*, Lecture Notes in Artificial Intelligence. Springer-Verlag, Heidelberg, 1996.
- [Frege, 1972] G. Frege. *Conceptual Notation (Begriffsschrift), and Related Articles*. Oxford : Clarendon Press, 1972. (English translation, edited by T. Bynum.).
- [Freksa, 1992] Christian Freksa. Temporal reasoning based on semi-intervals. *Artificial intelligence*, 54(1):199–227, 1992.
- [Friedman *et al.*, 1998] N. Friedman, K. Murphy, and S. Russell. Learning the Structure of Dynamic Probabilistic Networks. In *Proceedings of International Conference on Uncertainty in AI (UAI)*, pages 139–147, 1998.
- [Fries, 1972] J.F. Fries. Time oriented patient records and a computer databank. *Journal of the American Medical Association*, 222:1536–1543, 1972.
- [Frühwirth, 1996] T. Frühwirth. Temporal Annotated Constraint Logic Programming. *Journal of Symbolic Computation*, 22(5/6), 1996.
- [Fung and Kowalski, 1997] T.H. Fung and R. Kowalski. The IFF Proof Procedure for Abductive Logic Programming. *Journal of Logic Programming*, 33(2):151–165, 1997.
- [Furer, 1982] M. Furer. The Complexity of Presburger Arithmetic with Bounded Quantifier Alternation Depth. *Theoretical Computer Science*, 18:105–111, 1982.

- [Fusaoka, 1996] A. Fusaoka. Situation Calculus on a Dense Flow of Time. In *Proceedings of AAAI Conference*, pages 633–638. AAAI press, 1996.
- [Gabbay and Hodkinson, 1990] D. M. Gabbay and I. M. Hodkinson. An Axiomatisation of the Temporal Logic with Until and Since over the Real Numbers. *Journal of Logic and Computation*, 1(2):229 – 260, 1990.
- [Gabbay *et al.*, 1980] D. Gabbay, A. Pnueli, S. Shelah, and J. Stavi. The Temporal Analysis of Fairness. In *Proceedings of the Seventh ACM Symposium on the Principles of Programming Languages (POPL)*, pages 163–173, Las Vegas, Nevada, January 1980.
- [Gabbay *et al.*, 1994a] D. Gabbay, I. Hodkinson, and M. Reynolds. *Temporal Logic: Mathematical Foundations and Computational Aspects, Volume 1*. Oxford University Press, 1994.
- [Gabbay *et al.*, 1994b] D.M. Gabbay, C. Hogger, J. Robinson, and D. Nute. *Handbook of Logic in AI and Logic Programming - Volume 4: Epistemic and Temporal Reasoning*. Clarendon Press, Oxford, 1994.
- [Gabbay *et al.*, 2000] D.M. Gabbay, M.A. Reynolds, and M. Finger. *Temporal Logic: Mathematical Foundations and Computational Aspects - Volume 2*, volume 40 of *Oxford Logic Guides*. Oxford University Press, 2000.
- [Gabbay, 1981] D.M. Gabbay. The Separation Theorem for Temporal Logic. Technical Report DFG Project RO/245/12, University of Stuttgart, 1981.
- [Gal *et al.*, 1994] A. Gal, O. Etzioni, and A. Segev. Representation of Highly-Complex Knowledge in a Database. *Journal of Intelligent Information Systems*, 3(2):185–203, 1994.
- [Galipienso and Sanchis, 2002] M.I.A. Galipienso and F.B. Sanchis. Representation and Reasoning with Disjunction Temporal Constraints. In *Proceedings of Ninth International Symposium on Temporal Representation and Reasoning (TIME)*, 2002.
- [Galton, 1984] A. P. Galton. *The Logic of Aspect: an Axiomatic Approach*. Clarendon Press, Oxford, 1984.
- [Galton, 1987] A. Galton, editor. *Temporal Logics and Their Applications*. Academic Press, 1987.
- [Galton, 1990] Antony Galton. A Critical Examination of Allen’s Theory of Action and Time. *Artificial Intelligence*, 42:159–188, 1990.
- [Galton, 1991] A. P. Galton. Reified Temporal Theories and How To Unreify Them. In *Proceedings of International Joint Conference on Artificial Intelligence (IJCAI)*, pages 1177–1182. Morgan Kaufmann, 1991.
- [Galton, 1996a] A. P. Galton. A Note on a Lemma of Ladkin. *Journal of Logic and Computation*, 6(1):1–4, 1996.
- [Galton, 1996b] A. P. Galton. An Investigation of ‘Non-Intermingling’ Principles in Temporal Logic. *Journal of Logic and Computation*, 6, 2:271–294, 1996.
- [Gamper and Nejd, 1997] J. Gamper and W. Nejd. Abstract Temporal Diagnosis in Medical Domains. *Artificial Intelligence in Medicine*, 10:209–234, 1997.
- [Garagnani, 2000] M. Garagnani. A Correct Algorithm for Efficient Planning with Preprocessed Domain Axioms. In M. Bramer, A. Preece, and F. Coenen, editors, *Research and Development in Intelligent Systems XVII (Proceedings of ES’2000)*. Springer-Verlag, 2000.
- [Gardner, 1987] A. Gardner. *An Artificial Intelligence Approach to Legal Reasoning*. MIT Press, 1987.
- [Garrido *et al.*, 2002] A. Garrido, M. Fox, and D. Long. Temporal Planning with PDDL2.1. In *Proceedings of the European Conference on Artificial Intelligence (ECAI)*, 2002.

- [Gayral, 1992] F. Gayral. *Sémantique du Langage Naturel et Profondeur Variable: Une Première Approche*. PhD thesis, Université de Paris-Nord, Villetaneuse (FR), 1992.
- [Gazen and Knoblock, 1997] B. Gazen and C. Knoblock. Combining the Expressivity of UCPOP with the Efficiency of Graphplan. In *Proceedings of European Conference on Planning (ECP)*, pages 221–233, 1997.
- [Geerts *et al.*, 2001] F. Geerts, S. Haesevoets, and B. Kuijpers. A Theory of Spatio-Temporal Database Queries. In *Proceedings of the International Workshop on Database Programming Languages*, pages 198–212, 2001.
- [Gelfond and Lifschitz, 1988] M. Gelfond and V. Lifschitz. The stable model semantics for logic programming. In R. Kowalski and K. Bowen, editors, *Logic Programming: Proc. of the Fifth Int'l Conf. and Symp.*, pages 1070–1080. MIT Press, 1988.
- [Gelfond and Lifschitz, 1990] M. Gelfond and V. Lifschitz. Logic Programs with Classical Negation. In D. Warren and P. Szeredi, editors, *Proceedings of the Seventh International Conference on Logic Programming (ICLP)*, pages 579–597, 1990.
- [Gelfond and Lifschitz, 1991] M. Gelfond and V. Lifschitz. Classical Negation in Logic Programs and Disjunctive Databases. *New Generation Computing*, 9:365–387, 1991.
- [Gelfond and Lifschitz, 1993] M. Gelfond and V. Lifschitz. Representing Actions and Change by Logic Programs. *Journal of Logic Programming*, 17(2,3,4):301–323, 1993.
- [Gelfond *et al.*, 1991] M. Gelfond, V. Lifschitz, and A. Rabinov. What are the Limitations of the Situation Calculus? In R. Boyer, editor, *Essays in honor of Woody Bledsoe*, pages 167–179. Kluwer Academic, 1991.
- [Gelfond *et al.*, 2001] M. Gelfond, M. Balduccini, and J. Galloway. Diagnosing Physical Systems in A-Prolog. In T. Eiter, W. Faber, and M. Truszczyński, editors, *Proceedings of the Sixth International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR)*, pages 213–226, 2001.
- [Gelfond, 1994] M. Gelfond. Logic Programming and Reasoning with Incomplete Information. *Annals of Mathematics and Artificial Intelligence*, 12:19–116, 1994.
- [Gelfond, 2001] M. Gelfond. Representing knowledge in A-Prolog. In *Computational Logic: from Logic Programming to the Future, Collection of Papers in Honour of B. Kowalski*. Elsevier, 2001.
- [Gentzen, 1934] G. Gentzen. Untersuchungen über das logische schliessen. *Math. Zeitschrift*, 39:176–210, 405–431, 1934.
- [Gerevini and Cristani, 1995] A. Gerevini and M. Cristani. Reasoning with Inequalities in Temporal Constraint Networks. Technical report, IRST - Istituto per la Ricerca Scientifica e Tecnologica, Povo TN, Italy, 1995. (A shorter version appears in the Proceedings of the Workshop on Spatial and Temporal Reasoning, IJCAI-95).
- [Gerevini and Cristani, 1996] A. Gerevini and M. Cristani. On Temporal Constraint Networks with Inequalities. Technical Report RT 199611-3, Dipartimento di Elettronica per l'Automazione, Università di Brescia, Italy, 1996.
- [Gerevini and Cristani, 1997] A. Gerevini and M. Cristani. On Finding Solutions in Temporal Constraint Networks. In *Proceedings of the Fifteenth International Joint Conference on Artificial Intelligence (IJCAI)*, pages 1460–1465, Nagoya, Japan, 1997. Morgan Kaufmann.
- [Gerevini and Nebel, 2002] A. Gerevini and B. Nebel. Qualitative Spatio-Temporal Reasoning with RCC-8 and Allen's Interval Calculus: Computational Complexity. In *Proceedings of the Seventh European Conference on Artificial Intelligence (ECAI)*, pages 312–316. IOS Press, 2002.
- [Gerevini and Renz, 1998] A. Gerevini and J. Renz. Combining Topological and Qualitative Size Constraints for Spatial Reasoning. In *Proceedings of the Fourth International Conference on Principles and Practice of Constraint Programming (CP)*. Springer Verlag, 1998.

- [Gerevini and Schubert, 1994a] A. Gerevini and L. Schubert. An Efficient Method for Managing Disjunctions in Qualitative Temporal Reasoning. In *Proceedings of the Fourth International Conference on Principles of Knowledge Representation and Reasoning (KR)*, pages 215–225, San Francisco, CA, 1994. Morgan Kaufmann.
- [Gerevini and Schubert, 1994b] A. Gerevini and L. Schubert. On Point-Based Temporal Disjointness. *Artificial Intelligence*, 70:347–361, 1994.
- [Gerevini and Schubert, 1995a] A. Gerevini and L. Schubert. Efficient Algorithms for Qualitative Reasoning about Time. *Artificial Intelligence*, 74(2):207–248, 1995.
- [Gerevini and Schubert, 1995b] A. Gerevini and L. Schubert. On Computing the Minimal Labels in Time Point Algebra Networks. *Computational Intelligence*, 11(3):443–448, 1995.
- [Gerevini and Serina, 2002] A. Gerevini and I. Serina. LPG: A Planner Based on Local Search for Planning Graphs. In *Proceedings of the Sixth International Conference on AI Planning Systems (AIPS)*. AAAI Press, 2002.
- [Gerevini *et al.*, 1993] A. Gerevini, L. Schubert, and S. Schaeffer. Temporal Reasoning in Timegraph I-II. *SIGART Bulletin*, 4(3):21–25, 1993.
- [Gerevini *et al.*, 1995] A. Gerevini, L. Schubert, and S. Schaeffer. The Temporal Reasoning Tools TimeGraph-I-II. *International Journal of Artificial Intelligence Tools*, 4(1–2):281–299, 1995. (A shorter version appeared in *Proceedings of the Sixth IEEE Int. Conf. on Tools with Artificial Intelligence*, p. 513–520, IEEE Computer Society Press, 1994; and in *SIGART Bulletin*, ACM Press, 4(3):21–25, July 1993.).
- [Gerevini *et al.*, 1996] A. Gerevini, A. Perini, and F. Ricci. Incremental Algorithms for Managing Temporal Constraints. In *Proceedings of the Eighth IEEE International Conference on Tools with Artificial Intelligence (ICTAI)*, Toulouse, France, 1996. IEEE Computer Society Press.
- [Gerevini, 1997] A. Gerevini. Reasoning About Time and Actions in Artificial Intelligence: Major Issues. In O. Stock, editor, *Spatial and Temporal Reasoning*, pages 43–70. Kluwer Academic Publishers, 1997.
- [Gerevini, 2003a] A. Gerevini. Incremental Tractable Reasoning about Qualitative Temporal Constraints. In *Proceedings of the Eighteenth International Joint Conference on Artificial Intelligence (IJCAI)*, pages 1283–1288. Morgan Kaufmann, 2003.
- [Gerevini, 2003b] A. Gerevini. Incremental Tractable Reasoning about Qualitative Temporal Information. Technical Report 2003-12-32, Dipartimento di Elettronica per l’Automazione, Università di Brescia, Italy, 2003.
- [Ghahramani and Jordan, 1996] Z. Ghahramani and M.I. Jordan. Factorial hidden Markov models. In *Proceedings of NIPS*, pages 396–402, 1996.
- [Ghallab and Laruelle, 1994] M. Ghallab and H. Laruelle. Representation and Control in IxTeT, a Temporal Planner. In *Proceedings of the International Conference on Artificial Intelligence Planning and Scheduling (AIPS)*, 1994.
- [Ghallab and Mounir Alaoui, 1989] M. Ghallab and A. Mounir Alaoui. Managing Efficiently Temporal Relations Through Indexed Spanning Trees. In *Proceedings of the Eleventh International Joint Conference on Artificial Intelligence (IJCAI-89)*, pages 1297–1303, San Mateo, CA, 1989. Morgan Kaufmann.
- [Ghallab, 1996] M. Ghallab. On Chronicles: Representation, On-line Recognition and Learning. In *Proceedings of International Conference on Knowledge Representation and Reasoning (KR)*, pages 597–606, 1996.
- [Giannotti *et al.*, 2003] F. Giannotti, G. Manco, and J. Wijsen. Logical Languages for Data Mining. In Chomicki *et al.* [2003b], chapter 9, pages 325–361.

- [Gilks and Berzuini, 2001] W.R. Gilks and C. Berzuini. Following a Moving Target — Monte Carlo Inference for Dynamic Bayesian Systems. *Journal of the Royal Statistical Society (Series B)*, 63(1):127–146, 2001.
- [Ginsberg and Smith, 1988a] M. Ginsberg and D. Smith. Reasoning about Action I: A Possible Worlds Approach. *Artificial Intelligence*, 35(2):165–196, June 1988.
- [Ginsberg and Smith, 1988b] M. Ginsberg and D. Smith. Reasoning about Action II: The Qualification Problem. *Artificial Intelligence*, 35(3):311–342, July 1988.
- [Ginsburg and Hull, 1983] S. Ginsburg and R. Hull. Order Dependency in the Relational Model. *Theoretical Computer Science*, 26:149–195, 1983.
- [Ginsburg and Hull, 1986] S. Ginsburg and R. Hull. Sort Sets in the Relational Model. *Journal of the ACM*, 33(3):465–488, 1986.
- [Giunchiglia and Lifschitz, 1998] E. Giunchiglia and V. Lifschitz. An Action Language Based on Causal Explanation: Preliminary Report. In *Proceedings of the AAAI Conference*, pages 623–630, 1998.
- [Giunchiglia *et al.*, 1997] F. Giunchiglia, A. Villaforita, and T. Walsh. Theories of Abstraction. *AI Communications*, 10(2):167–176, 1997.
- [Goldblatt, 1987] R. Goldblatt. *Logics of Time and Computation*, volume 7 of *CSLI Lecture Notes*. Center for the Study of Language and Information, Stanford University, California, 1987.
- [Goldblatt, 1991] R. Goldblatt. The McKinsey Axiom is not Canonical. *The Journal of Symbolic Logic*, 56(2):554–562, 1991.
- [Goldin, 1997] D.Q. Goldin. *Constraint Query Algebras*. PhD thesis, Dept. of Computer Science, Brown University, USA, 1997.
- [Golumbic and Shamir, 1993] Martin Charles Golumbic and Ron Shamir. Complexity and algorithms for reasoning about time: A graph-theoretic approach. *Journal of the ACM*, 40(5):1108–1133, 1993.
- [Goodwin *et al.*, 1994] S.D. Goodwin, E. Neufeld, and A. Trudel. Probabilistic Temporal Representation and Reasoning. *International Journal of Expert Systems*, 7(3):261–289, 1994.
- [Gordon and Veloso, 1996] C. Gordon and M. Veloso. The PRESTIGE Project: Implementing Guidelines in Healthcare. In *Medical Informatics Europe*, pages 887–891. IOS Press, 1996.
- [Goré, 1997] R. Goré. Tableau Methods for Modal and Temporal Logics. Technical Report TR-ARP-15-95 (revised 1997), Automated Reasoning Project, Australian National University, Canberra, Australia, 1997.
- [Gough, 1984] G. D. Gough. Decision Procedures for Temporal Logic. Master’s thesis, Department of Computer Science, University of Manchester, October 1984. (Also University of Manchester, Department of Computer Science, Technical Report UMCS-89-10-1.).
- [Grahne, 1991] G. Grahne. *The Problem of Incomplete Information in Relational Databases*, volume 554 of *Lecture Notes in Computer Science*. Springer Verlag, 1991.
- [Gregersen and Jensen, 1999] H. Gregersen and C. S. Jensen. Temporal Entity-Relationship Models - A Survey. *Knowledge and Data Engineering*, 11(3):464–497, 1999.
- [Grimshaw and Russel, 1993] J.M. Grimshaw and I.T. Russel. Effects of Clinical Guidelines on Medical Practice: A Systematic Review of Rigorous Evaluation. *Lancet*, pages 1317–1322, 1993.
- [Gruska, 1990] J. Gruska. Synthesis, Structure and Power of Systolic Computations. *Theoretical Computer Science*, 71(1):47–77, 1990.
- [Guesgen, 1989] H.-W. Guesgen. Spatial Reasoning Based on Allen’s Temporal Logic. Technical Report TR-89-094, ICSI, 1989.

- [Gupta *et al.*, 1997] V. Gupta, T.A. Henziner, and R. Jagadeesan. Robust timed automata. In *Hybrid and Real-time Systems (HART)*, volume 1201 of *Lecture Notes in Computer Science*, pages 331–345. Springer-Verlag, 1997.
- [Gurevich and Shelah, 1985] Y. Gurevich and S. Shelah. The Decision Problem for Branching Time Logic. *J. of Symbolic Logic*, 50:668–681, 1985.
- [Haarslev *et al.*, 1998] V. Haarslev, C. Lutz, and R. Möller. Foundation of Spatiotemporal Reasoning with Description Logics. In A. Cohn, L. Schubert, and S. C. Shapiro, editors, *Proceedings of the Sixth International Conference on Principles of Knowledge Representation and Reasoning (KR)*, pages 112–123, Trento, Italy, June 1998. Morgan Kaufmann.
- [Haddawy, 1994] P. Haddawy. *Representing Plans under Uncertainty: A Logic of Time, Chance, and Action*. Number 770 in *Lecture Notes in Artificial Intelligence*. Springer-Verlag, 1994.
- [Hafer and Thomas, 1987] T. Hafer and W. Thomas. Computation tree logic CTL* and path quantifiers in the monadic theory of the binary tree. In *Proceedings of the International Colloquium on Automata, Languages and Programming (ICALP)*, volume 267 of *Lecture Notes in Computer Science*, pages 269–279, Karlsruhe, Germany, 1987. Springer.
- [Haimowitz and Kohane, 1996] I.J. Haimowitz and I.S. Kohane. Managing Temporal Worlds for Medical Trend Diagnosis. *Artificial Intelligence in Medicine*, 8(3):299–321, 1996.
- [Halpern and Moses, 1985] J. Y. Halpern and Y. Moses. A Guide to the Modal Logics of Knowledge and Belief. In *Proceedings of the Ninth International Joint Conference on Artificial Intelligence (IJCAI)*, pages 480–490, 1985.
- [Halpern and Moses, 1992] J. Y. Halpern and Y. Moses. A Guide to Completeness and Complexity for Modal Logics of Knowledge and Belief. *Artificial Intelligence*, 54:319–379, 1992.
- [Halpern and Shoham, 1986] J. Halpern and Y. Shoham. A Propositional Modal Logic of Time Intervals. In *Proceedings of International Symposium on Logic in Computer Science (LICS)*. IEEE Press, 1986.
- [Halpern and Shoham, 1991] J. Y. Halpern and Y. Shoham. A Propositional Modal Logic of Time Intervals. *Journal of the ACM*, 38(4):935–962, 1991.
- [Halpern and Vardi, 1991] J. Y. Halpern and M. Y. Vardi. Model Checking vs. Theorem Proving: A Manifesto. In V. Lifschitz, editor, *AI and Mathematical Theory of Computation — Papers in Honor of John McCarthy*. Academic Press, 1991.
- [Hamblin, 1971] C. L. Hamblin. Instants and Intervals. *Studium Generale*, 24:127–34, 1971.
- [Hamblin, 1972] C. L. Hamblin. Instants and Intervals. In J. T. Fraser, F. C. Haber, and G. H. Müller, editors, *The Study of Time*, pages 324–328. Springer-Verlag, New York, 1972.
- [Hanks and McDermott, 1986] S. Hanks and D. McDermott. Default Reasoning, Nonmonotonic Logic and the Frame Problem. In *Proceedings of the American Association for AI Conference (AAAI)*, pages 328–333, 1986.
- [Hanks and McDermott, 1987] S. Hanks and D. McDermott. Nonmonotonic Logic and Temporal Projection. *Artificial Intelligence*, 33(3):379–412, 1987.
- [Hanks and McDermott, 1994] S. Hanks and D. McDermott. Modeling a Dynamic and Uncertain World I: Symbolic and Probabilistic Reasoning about Change. *Artificial Intelligence*, 65(2), 1994.
- [Hanks *et al.*, 1995] S. Hanks, D. Madigan, and J. Gavrín. Probabilistic Temporal Reasoning with Endogenous Change. In *Proceedings of International Conference on Uncertainty in Artificial Intelligence (UAI)*, 1995.
- [Hanks, 1990] S. Hanks. Projecting Plans for Uncertain Worlds. Technical Report 756, Department of Computer Science, Yale University, USA, January 1990. Ph.D. thesis.

- [Hansen and Zilberstein, 1996] E.A. Hansen and S. Zilberstein. Monitoring the Progress of Anytime Problem-Solving. In *Proceedings of the Thirteenth National Conference of the American Association for Artificial Intelligence (AAAI)*, pages 1229–1234. AAAI Press/The MIT Press, 1996.
- [Harel *et al.*, 1980] D. Harel, D. Kozen, and R. Parikh. Process Logic: Expressiveness, Decidability, Completeness. In *Proceedings of IEEE Symposium on Foundations of Computer Science (FOCS)*, pages 129–142, 1980.
- [Harel *et al.*, 1982] D. Harel, D. Kozen, and R. Parikh. Process Logic: Expressiveness, Decidability, Completeness. *Journal of Computing System Sciences*, 25:144–170, 1982.
- [Harel, 1979] D. Harel. *First-Order Dynamic Logic*, volume 68. Springer-Verlag Inc., New York, USA, 1979.
- [Harel, 1984] D. Harel. Dynamic Logic. In D. Gabbay and F. Guenther, editors, *Handbook of Philosophical Logic*, volume II: Extensions of Classical Logic, pages 497–604. D. Reidel Publishing Co., Dordrecht, 1984.
- [Haslum and Geffner, 2001] P. Haslum and H. Geffner. Heuristic Planning with Time and Resources. In *Proceedings of the European Conference on Planning (ECP)*, Toledo, Spain, 2001.
- [Haugh, 1987] B. A. Haugh. Non-Standard Semantics for The Method of Temporal Arguments. In *Proceedings of the Tenth International Joint Conference on Artificial Intelligence (IJCAI-87)*, pages 449–454. Morgan Kaufmann, 1987.
- [Heckerman and Miller, 1986] D.E. Heckerman and R.A. Miller. Towards a Better Understanding of the INTERNIST-1 Knowledge Base. In R. Salamon, B. Blum, and M. Jorgensen, editors, *Proceedings of the Fifth Conference on Medical Informatics (MEDINFO)*, pages 27–31, New York, 1986. North-Holland.
- [Hendry and Richard, 1990] D.F. Hendry and J.F. Richard. Likelihood Evaluation for Dynamic Latent Variables Models. In H.M. Amann, D.A. Belsley, and L.F. Pau, editors, *Computational Economics and Econometrics*, chapter 1. Kluwer, Dordrecht, 1990.
- [Henkin, 1949] L. Henkin. The Completeness of the First-Order Functional Calculus. *J. of Symbolic Logic*, 14:159–166, 1949.
- [Henzinger *et al.*, 1994] T. Henzinger, Z. Manna, and A. Pnueli. Temporal Proof Methodologies for Timed Transition Systems. *Information and Computation*, 112:273–337, 1994.
- [Henzinger *et al.*, 1995] T.A. Henzinger, P-H. Ho, and H Wong-Toi. A user guide to HYTECH. In E. Brinksma, W.R. Cleaveland, K.G. Larsen, T. Margaria, and B. Steffen, editors, *Proceedings of Conference on Tools and Algorithms for the Construction and Analysis of Systems: (TACAS)*, volume 1019 of *Lecture Notes in Computer Science*, pages 41–71, 1995.
- [Henzinger, 1996] T.A. Henzinger. The Theory of Hybrid Automata. In *Proceedings of the 11th Annual Symposium on Logic in Computer Science (LICS)*, pages 278–292. IEEE Computer Society Press, 1996.
- [Herbert *et al.*, 1995] S.I. Herbert, C.J. Gordon, A. Jackson–Smale, and J.L. Renaud Salis. Protocols for Clinical Care. *Computer Methods and Programs in Biomedicine*, 48:21–26, 1995.
- [Heurding *et al.*, 1995] A. Heurding, G. Jaeger, S. Schwendimann, and M. Seyfried. Propositional Logics on the Computer. In P. Baumgartner, R. Hähnle, and J. Posegga, editors, *Proceedings of Tableaux Workshop*, volume 918 of *Lecture Notes in Computer Science*, pages 310–323. Springer-Verlag, 1995.
- [Hintikka, 1955] J. Hintikka. Form and Content in Quantification Theory. *Acta Philosophica Fennica*, 8:7–55, 1955.
- [Hirsh, 1996] R. Hirsh. Relation Algebras of Intervals. *Artificial Intelligence*, 83(2):267–295, 1996.

- [Hobbs, 1985] J. Hobbs. Granularity. In *Proceedings of International Joint Conference on Artificial Intelligence (IJCAI)*, pages 432–435, 1985.
- [Hochbaum and Naor, 1994] D.S. Hochbaum and J. Naor. Simple and Fast Algorithms for Linear and Integer Programs with Two Variables per Inequality. *SIAM Journal on Computing*, 23(6):1179–1192, 1994.
- [Hodges, 1984] W. Hodges. Elementary Predicate Logic. In D. Gabbay and F. Guentner, editors, *Handbook of Philosophical Logic*. D. Reidel, Dordrecht, 1984.
- [Hodkinson *et al.*, 2000] I. Hodkinson, F. Wolter, and M. Zakharyashev. Decidable Fragments of First-Order Temporal Logics. *Annals of Pure and Applied Logic*, 106:85–134, 2000.
- [Hodkinson *et al.*, 2002] I. Hodkinson, F. Wolter, and M. Zakharyashev. Decidable and Undecidable Fragments of First-Order Branching Temporal Logics. In *IEEE Symposium on Logic in Computer Science*, pages 393–402, 2002.
- [Hodkinson *et al.*, 2003] I. Hodkinson, R. Kontchakov, A. Kurucz, F. Wolter, and M. Zakharyashev. On the Computational Complexity of Decidable Fragments of First-order Linear Temporal Logics. In *Proceedings of the Joint Tenth International Symposium on Temporal Representation and Reasoning and Fourth International Conference on Temporal Logic (TIME-ICTL)*, 2003.
- [Hodkinson, 2000] I. Hodkinson. Temporal Logic and Automata (Chapter 2). In *Temporal Logic: Mathematical Foundations and Computational Aspects, Vol. 2*. Oxford University Press, 2000.
- [Hodkinson, 2002] I. M. Hodkinson. Monodic Packed Fragment with Equality is Decidable. *Studia Logica*, 72(2):185–197, 2002.
- [Hoffmann and Nebel, 2000] J. Hoffmann and B. Nebel. The FF Planning System: Fast Plan Generation Through Heuristic Search. *Journal of AI Research*, 14:253–302, 2000.
- [Hogge, 1987] J.C. Hogge. TPLAN: A Temporal Interval-based Planner with Novel Extensions. Technical Report UIUCDCS-R-87, University of Illinois, USA, 1987.
- [Holldobler and Thielscher, 1993] S. Holldobler and M. Thielscher. Actions and Specificity. In D. Miller, editor, *Proceedings of the International Conference on Logic Programming (ICLP)*, pages 164–180, 1993.
- [Hollunder *et al.*, 1990] B. Hollunder, W. Nutt, and M. Schmidt-Schau. Subsumption Algorithms for Concept Description Languages. In *Proceedings of European Conference on Artificial Intelligence (ECAI)*, pages 348–353, 1990.
- [Holzmann, 1997] G.J. Holzmann. The Model Checker Spin. *IEEE Transactions on Software Engineering*, 23(5):279–295, May 1997.
- [Holzmann, 2003] G. J. Holzmann. *The Spin Model Checker: Primer and Reference Manual*. Addison-Wesley, November 2003.
- [Horn *et al.*, 1997] W. Horn, S. Miksch, G. Egghart, C. Popow, and F. Paky. Effective Data Validation of High-Frequency Data: Time-Point-, Time-Interval-, and Trend-Based Methods. *Computers in Biology and Medicine*, 27(5):389–409, 1997.
- [Horn, 2001] W. Horn. AI in Medicine on its way from Knowledge-Intensive to Data-Intensive Systems. *Artificial Intelligence in Medicine*, 23:3–12, 2001.
- [Horrocks, 1998] I. Horrocks. The FaCT System. In *Proceedings of International Conference on Automated Reasoning with Analytic Tableaux and Related Methods (Tableaux'98)*, volume 1397 of *Lecture Notes in Computer Science*, pages 307–312. Springer-Verlag, May 1998.
- [Howey and Long, 2002] R. Howey and D. Long. Validating Plans with Continuous Effects. Technical report, Department of Computer Science, University of Durham, UK, 2002.
- [Hripcsak *et al.*, 1994] G. Hripcsak, P. Ludemann, T.A. Pryor, O.B. Wigertz, and P.D. Clayton. Rationale for the Arden Syntax. *Computers and Biomedical Research*, 27:291–324, 1994.

- [Hrycej, 1993] T. Hrycej. A Temporal Extension of Prolog. *Journal of Logic Programming*, 15:113–145, 1993.
- [Hughes and Cresswell, 1968] G. Hughes and M. Cresswell. *An Introduction to Modal Logic*. Methuen, London, 1968.
- [Hustadt and Konev, 2002] U. Hustadt and B. Konev. TRP++: A Temporal Resolution Prover. In *Proceedings of 3rd International Workshop on the Implementation of Logics*, Tbilisi, Georgia, October 2002.
- [Hustadt and Konev, 2003] U. Hustadt and B. Konev. TRP 2.0: A Temporal Resolution Prover. In *Proceedings of 19th International Conference on Automated Deduction (CADE)*, LNCS. Springer, July/August 2003.
- [Hustadt and Schmidt, 2002] U. Hustadt and R. A. Schmidt. Scientific Benchmarking with Temporal Logic Decision Procedures. In D. Fensel, F. Giunchiglia, D. McGuinness, and M.-A. Williams, editors, *Proceedings of the Eighth International Conference on Principles of Knowledge Representation and Reasoning (KR)*, pages 533–544. Morgan Kaufmann, 2002.
- [Hustadt *et al.*, 2000] U. Hustadt, C. Dixon, R. A. Schmidt, and M. Fisher. Normal Forms and Proofs in Combined Modal and Temporal Logics. In *Proceedings of the Third International Workshop on Frontiers of Combining Systems (FroCoS)*, volume 1794 of *Lecture Notes in Artificial Intelligence*. Springer-Verlag, March 2000.
- [Hwang and Schubert, 1994] C.L. Hwang and L.K. Schubert. Interpreting Tense, Aspect, and Time Adverbials: A Compositional, Unified Approach. In D.M. Gabbay and H.J. Ohlbach, editors, *Proceedings of the First International Conference on Temporal Logic (ICTL)*, volume 827 of *Lecture Notes in Computer Science*, pages 237–264, Berlin, 1994. Springer-Verlag.
- [Imielinski and Lipski, 1984] T. Imielinski and W. Lipski. Incomplete Information in Relational Databases. *Journal of ACM*, 31(4):761–791, 1984.
- [Immerman and Kozen, 1989] N. Immerman and D. Kozen. Definability with Bounded Number of Bound Variables. *Information and Computation*, 83(2):121–139, 1989.
- [ISO, 1992] ISO. Database Language SQL. ISO/IEC 9075:1992, International Organization for Standardization, 1992.
- [Iwasaki and Low, 1992] Y. Iwasaki and C.M. Low. Device Modelling Environment: An Integrated Model-formulation and simulation environment for Continuous and Discrete Phenomena. In *Proceedings of the Conference on Intelligent Systems Engineering*, 1992.
- [Iwasaki *et al.*, 1995] Y. Iwasaki, A. Farquhar, V. Saraswat, D. Bobrow, and V. Gupta. Modelling Time in Hybrid Systems: How Fast Is 'Instantaneous'? In *Proceedings of the Fourteenth International Joint Conference on Artificial Intelligence (IJCAI)*, pages 1773–1781. Morgan Kaufmann, 1995.
- [Jackendoff, 1976] R. Jackendoff. Toward an Explanatory Semantic Representation. *Linguistic Inquiry*, 7(1):89–150, 1976.
- [Jaffar and Lassez, 1987] J. Jaffar and J-L. Lassez. Constraint Logic Programming. In *Proceedings of ACM Symposium on Principles of Programming Languages (POPL)*, 1987.
- [Jaffar and Maher, 1994] J. Jaffar and M.J. Maher. Constraint Logic Programming: A Survey. *Journal of Logic Programming*, 19(20):503–581, 1994.
- [Jaffar *et al.*, 1994] J. Jaffar, M. J. Maher, P. Stuckey, and R. Yap. Beyond Finite Domains. In A. Borning, editor, *Proceedings of PPCP Conference*, volume 874 of *Lecture Notes in Computer Science*, pages 86–94. Springer Verlag, 1994.
- [Jäger *et al.*, 2002] G. Jäger, P. Balsiger, A. Heuerding, S. Schwendimann, M. Bianchi, K. Guggisberg, G. Janssen, W. Heinle, F. Achermann, A. D. Boroumand, P. Brambilla, I. Bucher, and H. Zimmermann. LWB—The Logics Workbench 1.1. <http://www.lwb.unibe.ch/>, 2002. University of Berne, Switzerland.

- [Janssen, 1999] G.L.J.M. Janssen. *Logics for Digital Circuit Verification: Theory, Algorithms, and Applications*. PhD thesis, Eindhoven University of Technology, Eindhoven, The Netherlands, 1999.
- [Jennings and Wooldridge, 1998] N. R. Jennings and M. Wooldridge. Applications of Agent Technology. In *Agent Technology: Foundations, Applications, and Markets*. Springer-Verlag, Heidelberg, 1998.
- [Jensen *et al.*, 1993] C.S. Jensen, M.D. Soo, and R.T. Snodgrass. Unification of Temporal Data Models. In *Proceedings of IEEE International Conference on Data Engineering*, 1993.
- [Jensen *et al.*, 1994] C. Jensen, J. Clifford, S. Elmasri, R. Gadia, P. Hayes, S. Jajodia, C. Dyreson, F. Grandi, W. Kaefer, N. Kline, N. Lorentzos, Y. Mitsopoulos, A. Montanari, D. Nonen, E. Peressi, B. Pernici, J. Roddick, N. Sarda, M. Scalas, A. Segev, Richard Snodgrass, Mike Soo, A. Tansel, P. Tiberio, and W. Gio. A Consensus Glossary of Temporal Database Concepts. *SIGMOD record*, 23:52–64, 1994.
- [Jensen *et al.*, 1996] C.S. Jensen, R.T. Snodgrass, and M.D. Soo. Extending Existing Dependency Theory to Temporal Databases. *IEEE Transactions on Knowledge and Data Engineering*, 8(4), 1996.
- [Jensen, 1995] C. S. Jensen. Vacuuming. In R. T. Snodgrass, editor, *The TSQL2 Temporal Query Language*, pages 447–460. Kluwer Academic Publishers, 1995.
- [Jensen, 2001] F.V. Jensen. *Bayesian Networks and Decision Graphs*. Springer-Verlag, New York, 2001.
- [Johnson *et al.*, 2000] P. Johnson, S. Tu, N. Booth, B. Sugden, and I. Purves. Using Scenarios in Chronic Disease Management Guidelines for Primary Care. In M.J. Overhage, editor, *Proceedings of the AMIA Annual Symposium*. Hanley & Belfus, 2000.
- [Jonsson and Bäckström, 1996] P. Jonsson and C. Bäckström. A Linear Programming Approach to Temporal Reasoning. In *Proceedings of the AAAI Conference*, pages 1235–1240. AAAI Press/MIT Press, 1996.
- [Jonsson and Bäckström, 1998] Peter Jonsson and Christer Bäckström. A unifying approach to temporal constraint reasoning. *Artificial Intelligence*, 102(1):143–155, 1998.
- [Jonsson *et al.*, 1999] Peter Jonsson, Thomas Drakengren, and Christer Bäckström. Computational complexity of relating time points with intervals. *Artificial Intelligence*, 109(1–2):273–295, 1999.
- [Josephson and Josephson, 1994] J.R. Josephson and S.G. Josephson, editors. *Abductive Inference: Computation, Philosophy, Technology*. New York: Cambridge University Press, 1994.
- [Jung *et al.*, 1996] C.G. Jung, K. Fischer, and A. Burt. Multi-Agent Planning Using an Abductive Event Calculus. Technical Report DFKI Report RR-96-04, DFKI, Germany, 1996.
- [Kabanza *et al.*, 1995] F. Kabanza, J-M. Stevenne, and P. Wolper. Handling Infinite Temporal Data. *Journal of Computer and System Sciences*, 51(1):3–17, 1995.
- [Kahn and Gorry, 1977] K. Kahn and G.A. Gorry. Mechanizing Temporal Knowledge. *Artificial Intelligence*, 9:87–108, 1977.
- [Kahn, 1988] M.G. Kahn. *Model-Based Interpretation of Time-Ordered Medical Data*. PhD thesis, Section on Medical Information Sciences, University of California, San Francisco, USA, 1988.
- [Kahn, 1991a] M.G. Kahn. Combining Physiologic Models and Symbolic Methods to Interpret Time-Varying Patient Data. *Methods of Information in Medicine*, 30:167–178, 1991.
- [Kahn, 1991b] M.G. Kahn. Extensions to the Time-Oriented Database Model to Support Temporal Reasoning in Medical Expert Systems. *Methods of Information in Medicine*, 30:4–14, 1991.
- [Kahn, 1991c] M.G. Kahn. TQuery: A Context-Sensitive Temporal Query Language. *Computers and Biomedical Research*, 24:401–419, 1991.

- [Kaivola, 1995] R. Kaivola. Axiomatising Linear Time μ -Calculus. In *Proceedings of the Sixth International Conference on Concurrency theory (CONCUR)*, volume 962 of LNCS, pages 423–437. Springer-Verlag, 1995.
- [Kakas and Mancarella, 1990a] A. Kakas and P. Mancarella. Generalized Stable Models: A Semantics for Abduction. In *Proceedings of European Conference on Artificial Intelligence (ECAI)*, pages 385–391, 1990.
- [Kakas and Mancarella, 1990b] A.C. Kakas and P. Mancarella. Database Updates Through Abduction. In *Proceedings of the Sixteenth International Conference on Very Large Databases (VLDB)*, pages 650–661. Morgan Kaufmann, 1990.
- [Kakas and Miller, 1997] A. Kakas and R. Miller. A Simple Declarative Language for Describing Narratives with Actions. *Journal of Logic Programming*, 31(1-3):157–200, April-June 1997.
- [Kakas *et al.*, 1992] A. C. Kakas, R.A. Kowalski, and F. Toni. Abductive Logic Programming. *Journal of Logic and Computation*, 2(6):719–770, 1992.
- [Kakas *et al.*, 2000] A.C. Kakas, A. Michael, and C. Mourlas. ACLP: Abductive Constraint Logic Programming. *Journal of Logic Programming*, 44(1-3):129–177, 2000.
- [Kakas *et al.*, 2001] A. Kakas, B. Van Nuffelen, and M. Denecker. A-system : Problem Solving Through Abduction. In B. Nebel, editor, *Proceedings of Seventeenth International Joint Conference on Artificial Intelligence (IJCAI)*, volume 1, pages 591–596. Morgan Kaufmann Publishers, Inc., 2001.
- [Kamp and Reyle, 1993] H. Kamp and U. Reyle. *From Discourse to Logic*. Kluwer Academic Publishers, Dordrecht, 1993.
- [Kamp and Reyle, 1996] H. Kamp and U. Reyle. A Calculus for First-Order Discourse Representation Structures. *Journal of Logic, Language and Information*, 5:297–348, 1996.
- [Kamp, 1968] H. Kamp. *Tense Logic and the Theory of Linear Order*. PhD Dissertation, UCLA, Los Angeles, USA, 1968.
- [Kamp, 1971] H. Kamp. Formal Properties of ‘now’. *Theoria*, 37:227–273, 1971.
- [Kamp, 1979] H. Kamp. Events, Instants and Temporal Reference. In R. Bäuerle, U. Egli, and A. von Stechow, editors, *Semantics from Different Points of View*, pages 376–417. Springer-Verlag, 1979.
- [Kanazawa *et al.*, 1995] K. Kanazawa, D. Koller, and S. Russell. Stochastic Simulation Algorithms for Dynamic Probabilistic Networks. In *Proceedings of International Conference on Uncertainty in AI (UAI)*, 1995.
- [Kanazawa, 1991] K. Kanazawa. A Logic and Time Nets for Probabilistic Inference. In *Proceedings of the Ninth National Conference on Artificial Intelligence (AAAI)*, pages 360–365. MIT Press, 12–19 July 1991.
- [Kanellakis *et al.*, 1990] P.C. Kanellakis, G.M. Kuper, and P.Z. Revesz. Constraint Query Languages. In *Proceedings of the Ninth ACM SIGACT-SIGMOD-SIGART Symposium on Principles of Database Systems (PODS)*, pages 299–313, 1990.
- [Kanellakis *et al.*, 1995] P.C. Kanellakis, G.M. Kuper, and P.Z. Revesz. Constraint Query Languages. *Journal of Computer and System Sciences*, 51(1):26–52, August 1995.
- [Karmarkar, 1984] N. Karmarkar. A New Polynomial Time Algorithm for Linear Programming. *Combinatorica*, 4:373–395, 1984.
- [Kartha, 1993] G. Kartha. Soundness and Completeness Theorems for Three Formalizations of Action. In *Proceedings of International joint Conference on Artificial Intelligence (IJCAI)*, pages 724–729, 1993.

- [Kautz and Ladkin, 1991] H. Kautz and P. Ladkin. Integrating Metric and Temporal Qualitative Temporal Reasoning. In *Proceedings of the Ninth (US) National Conference on Artificial Intelligence (AAAI)*, pages 241–246, Anaheim, USA, July 1991. American Association for Artificial Intelligence, AAAI Press/MIT Press.
- [Kautz and Selman, 1995] H. Kautz and B. Selman. Unifying SAT-based and Graph-based Planning. In *Proceedings of the Fourteenth International Joint Conference on Artificial Intelligence (IJCAI)*, pages 318–325. Morgan Kaufmann, 1995.
- [Kautz, 1987] H.A. Kautz. *A Formal Theory of Plan Recognition*. PhD thesis, Department of Computer Science, University of Rochester, Rochester, USA, May 1987. Available as Technical Report 215.
- [Kautz, 1991] H.A. Kautz. A Formal Theory of Plan Recognition and its Implementation. In *Reasoning about Plans*, pages 69–126. Morgan Kaufmann, San Mateo, CA, 1991.
- [Kay *et al.*, 2000] H. Kay, B. Rinner, and B. J. Kuipers. Semi-quantitative System Identification. *Artificial Intelligence*, 119:103–140, 2000.
- [Keenan and Westerstahl, 1997] E. Keenan and D. Westerstahl. Generalized Quantifiers in Linguistics and Logic. In J. van Benthem and A. ter Meulen, editors, *Handbook of Logic and Language*, pages 837–893. MIT/Elsevier, 1997.
- [Kenny, 1963] A. Kenny. *Action, Emotion, and Will*. Routledge and Kegan Paul, London, 1963.
- [Keravnou and Washbrook, 1990] E.T. Keravnou and J. Washbrook. A Temporal Reasoning Framework used in the Diagnosis of Skeletal Dysplasias. *Artificial Intelligence in Medicine*, 2:239–265, 1990.
- [Keravnou and Washbrook, 2001] E.T. Keravnou and J. Washbrook. Abductive Diagnosis using Time-Objects: Criteria for the Evaluation of Solutions. *Computational Intelligence*, 17:87–131, 2001.
- [Keravnou, 1996a] E.T. Keravnou. An Ontology of Time Using Time-Axes and Time-Objects as Primitives. Technical Report TR-96-9, Department of Computer Science, University of Cyprus, Cyprus, 1996.
- [Keravnou, 1996b] E.T. Keravnou. Temporal Diagnostic Reasoning based on Time-Objects. *Artificial Intelligence in Medicine*, 8:235–265, 1996.
- [Keravnou, 1997] E.T. Keravnou. Temporal Abstraction of Medical Data: Deriving Periodicity. In N. Lavrač, E.T. Keravnou, and B. Zupan, editors, *Intelligent Data Analysis in Medicine and Pharmacology*, pages 61–79. Kluwer Academic Publishers, 1997.
- [Keravnou, 1999] E.T. Keravnou. A Multidimensional and Multigranular Model of Time for Medical Knowledge-Based Systems. *Journal of Intelligent Information Systems*, 13:79–120, 1999.
- [Kesten and Pnueli, 1995] Y. Kesten and A. Pnueli. A Complete Proof System for QPTL. In *Logics of Programs*, pages 2–12. IEEE, 1995.
- [Kesten *et al.*, 1994] Y. Kesten, Z. Manna, and A. Pnueli. Temporal Verification of Simulation and Refinement. *Lecture Notes in Computer Science*, 803, 1994.
- [Kesten *et al.*, 1997] Y. Kesten, Z. Manna, H. McGuire, and A. Pnueli. A Decision Algorithm for Full Propositional Temporal Logic. In *Proceedings of Conference on Computer Aided Verification (CAV)*, volume 697 of *Lecture Notes in Computer Science*, pages 97–109. Springer, 1997.
- [Khachiyan, 1979] L. G. Khachiyan. A Polynomial Algorithm in Linear Programming. *Soviet Mathematics Doklady*, 20:191–194, 1979.
- [Kifer and Lausen, 1989] M. Kifer and G. Lausen. F-logic: A Higher-order Language for Reasoning about Objects. In *Proceedings of Eighth ACM-SIGACT-SIGMOD-SIGART Symposium of Principles of Database Systems (PODS)*, 1989.

- [Kjaerulff, 1994] U. Kjaerulff. A Computational Scheme for Reasoning in Dynamic Probabilistic Networks. In *Proceedings of International Conference on Uncertainty in AI (UAI)*, pages 121–129, 1994.
- [Kleene, 1956] S. Kleene. Representation of Events in Nerve Nets and Finite Automata. In C. Shannon and J. McCarthy, editors, *Automata Studies*, pages 3–41. Princeton Univ. Press, 1956.
- [Kline, 1993] N. Kline. An Update of the Temporal Database Bibliography. *SIGMOD RECORD*, 22(4):66–80, 1993.
- [Konev *et al.*, 2003] B. Konev, A. Degtyarev, C. Dixon, M. Fisher, and U. Hustadt. Towards the Implementation of First-Order Temporal Resolution: the Expanding Domain Case. In *Proceedings of the Joint Tenth International Symposium on Temporal Representation and Reasoning and Fourth International Conference on Temporal Logic (TIME-ICTL)*. IEEE Press, 2003.
- [Konev, 2003] B. Konev. TRP++: Temporal Resolution Prover, 2003. Department of Computer Science, University of Liverpool, UK. <http://www.csc.liv.ac.uk/~konev/trp++>.
- [Kong *et al.*, 1994] A. Kong, J. Liu, and W.H. Wong. Sequential Imputations and Bayesian Missing Data Problems. *Journal of the American Statistical Association*, 89:278–298, 1994.
- [Kontchakov *et al.*, 2003] R. Kontchakov, C. Lutz, F. Wolter, and M. Zakharyashev. Temporalizing Tableaux. *Studia Logica*, 2003.
- [Koubarakis and Skiadopoulou, 1999] M. Koubarakis and S. Skiadopoulou. Querying Temporal Constraint Networks in PTIME. In *Proceedings of AAAI Conference*, pages 745–750, 1999.
- [Koubarakis and Skiadopoulou, 2000] M. Koubarakis and S. Skiadopoulou. Querying Temporal and Spatial Constraint Networks in PTIME. *Artificial Intelligence*, 123(1-2):223–263, 2000.
- [Koubarakis, 1992] M. Koubarakis. Dense Time and Temporal Constraints with \neq . In Swartout and Nebel [1992], pages 24–35.
- [Koubarakis, 1993] M. Koubarakis. Representation and Querying in Temporal Databases: the Power of Temporal Constraints. In *Proceedings of the Ninth International Conference on Data Engineering*, pages 327–334, April 1993.
- [Koubarakis, 1994a] M. Koubarakis. Complexity Results for First-Order Theories of Temporal Constraints. In *Proceedings of the Fourth International Conference on Principles of Knowledge Representation and Reasoning (KR)*, pages 379–390. Morgan Kaufmann, San Francisco, CA, May 1994.
- [Koubarakis, 1994b] M. Koubarakis. Database Models for Infinite and Indefinite Temporal Information. *Information Systems*, 19(2):141–173, March 1994.
- [Koubarakis, 1995] M. Koubarakis. From Local to Global Consistency in Temporal Constraint Networks. In *Proceedings of the First International Conference on Principles and Practice of Constraint Programming (CP)*, volume 976 of *Lecture Notes in Computer Science*, pages 53–69, Cassis, France, September 1995.
- [Koubarakis, 1996] M. Koubarakis. Tractable Disjunctions of Linear Constraints. In *Proceedings of the Second International Conference on Principles and Practice of Constraint Programming (CP)*, pages 297–307, Cambridge, MA, USA, August 1996.
- [Koubarakis, 1997a] M. Koubarakis. From Local to Global Consistency in Temporal Constraint Networks. *Theoretical Computer Science*, 173:89–112, February 1997.
- [Koubarakis, 1997b] M. Koubarakis. The Complexity of Query Evaluation in Indefinite Temporal Constraint Databases. *Theoretical Computer Science*, 171:25–60, January 1997.
- [Koubarakis, 2001] M. Koubarakis. Tractable Disjunctions of Linear Constraints: Basic Results and Applications to Temporal Reasoning. *Theoretical Computer Science*, 266:311–339, September 2001.

- [Kowalski and Sadri, 1997] R. Kowalski and F. Sadri. Reconciling the Event Calculus with the Situation Calculus. *Journal of Logic Programming*, 31(1-3):39–58, 1997.
- [Kowalski and Sergot, 1986] R.A Kowalski and M.J. Sergot. A Logic-based Calculus of Events. *New Generation Computing*, 1(4):67–95, 1986.
- [Kowalski, 1992] R.A. Kowalski. Database Updates in the Event Calculus. *Journal of Logic Programming*, 1992.
- [Koymans and Roever, 1985] R. Koymans and W.-P. de Roever. Examples of a Real-Time Temporal Logic Specification. In B.T. Denvir, W.T. Harwood, M.I. Jackson, and M.J. Wray, editors, *Analysis of Concurrent Systems*, volume 207 of *Lecture Notes in Computer Science*, pages 231–251. Springer-Verlag, Berlin-Heidelberg-New York, 1985.
- [Koymans, 1989] R. Koymans. *Specifying Message Passing and Time-Critical Systems with Temporal Logic*. PhD thesis, Technische Universiteit Eindhoven, Netherlands, 1989.
- [Kozen, 1982] D. Kozen. Results on the Propositional μ -calculus. In *Proceedings of ICALP*, number 140 in *Lecture Notes in Computer Science*, pages 340–359, 1982.
- [Kroger, 1987] F. Kroger. *Temporal Logic of Programs*. Springer Verlag, 1987.
- [Krokhin *et al.*, 2001] A. Krokhin, P. Jeavons, and P. Jonsson. A Complete Classification of Tractability in Allen’s Algebra in the Presence of a Non-Trivial Basic Relation. In B. Nebel, editor, *Proceedings of the Seventeenth International Joint Conference on Artificial Intelligence (IJCAI)*, pages 83–88, Seattle, Washington, USA, August 2001. Morgan Kaufmann.
- [Krokhin *et al.*, 2003] A. Krokhin, P. Jeavons, and P. Jonsson. The Tractable Subalgebras of Allen’s Interval Algebra. *Journal of the ACM*, 50(5):591–640, 2003.
- [Kuipers and Åström, 1994] B. J. Kuipers and K. Åström. The Composition and Validation of Heterogeneous Control Laws. *Automatica*, 30(2):233–249, 1994.
- [Kuipers, 1986] B. Kuipers. Qualitative Simulation. *Artificial Intelligence*, 26:289–338, 1986.
- [Kuipers, 1988] B. Kuipers. Qualitative Simulation using Time-Scaled Abstraction. *Artificial Intelligence in Engineering*, 3(4):185–191, 1988.
- [Kuipers, 1994] B. J. Kuipers. *Qualitative Reasoning: Modeling and Simulation with Incomplete Knowledge*. MIT Press, Cambridge, MA, 1994.
- [Kumari and Pujari, 2002] G.V. Kumari and K. Pujari. Enforcing the Local Consistency in INDU. In *Proceedings of the International Conference on Knowledge Based Computed Systems*, 2002.
- [Kuper, 1987] G. Kuper. Logic Programming with Sets. In *Proceedings of the Sixth ACM-SIGACT-SIGMOD-SIGART Symposium of Principles of Database Systems (PODS)*, 1987.
- [Kushmerick *et al.*, 1995] N. Kushmerick, S. Hanks, and D. Weld. An Algorithm for Probabilistic Planning. *Artificial Intelligence*, 76:239–286, 1995.
- [Kvarnström *et al.*, 2000] J. Kvarnström, P. Doherty, and P. Hasslum. Extending TALplanner with Concurrency and Resources. In *Proceedings of the European Conference on Artificial Intelligence (ECAI)*, Berlin, Germany, August 2000.
- [Ladkin and Maddux, 1988] P.B. Ladkin and R. Maddux. On Binary Constraint Networks. Technical Report KES.U.88.8, Kestrel Institute, Palo Alto, USA, 1988.
- [Ladkin and Maddux, 1994] P.B. Ladkin and R. Maddux. On Binary Constraint Problems. *Journal of the ACM*, 41(3):435–469, 1994.
- [Ladkin and Reinefeld, 1992] P.B. Ladkin and A. Reinefeld. Effective Solution of Qualitative Interval Constraint Problems. *Artificial Intelligence*, 57(1):105–124, 1992.
- [Ladkin and Reinefeld, 1997] P.B. Ladkin and A. Reinefeld. Fast Algebraic Methods for Interval Constraint Problems. *Annals of Mathematics and Artificial Intelligence*, 19:383–411, 1997.

- [Ladkin, 1987] P. Ladkin. The Completeness of a Natural System for Reasoning with Time Intervals. In *Proceedings of the International Joint Conference on Artificial Intelligence (IJCAI)*, pages 462–467, 1987.
- [Ladkin, 1988] P. Ladkin. Satisfying First-Order Constraints About Time Intervals. In *Proceedings of AAAI Conference*, pages 512–517, 1988.
- [Lansky, 1986] A.L. Lansky. A Representation of Parallel Activity Based on Events, Structure and Causality. In M.P. Georgeff and A.L. Lansky, editors, *Proceedings of the Timberline Oregon Workshop on Reasoning about Actions and Plans*, 1986.
- [Larizza *et al.*, 1992] C. Larizza, A. Moglia, and M. Stefanelli. M-HTP: A System for Monitoring Heart-Transplant Patients. *Artificial Intelligence in Medicine*, 4(2):111–126, 1992.
- [Larizza *et al.*, 1997] C. Larizza, R. Bellazzi, and A. Riva. Temporal Abstractions for Diabetic Patients Management. In *Proceedings of AIME Conference*, volume 1211 of *Lecture Notes in Artificial Intelligence*, pages 319–330. Springer, 1997.
- [Lascarides and Asher, 1993] A. Lascarides and N. Asher. Temporal Interpretation, Discourse Relations and Commonsense Entailment. *Linguistics and Philosophy*, 16:437–594, 1993.
- [Lascarides and Oberlander, 1993] A. Lascarides and J. Oberlander. Temporal Connectives in a Discourse Context. In *Proceedings the Sixth Conference of the European Chapter of the ACL (EACL)*, pages 260–268, 1993.
- [Last *et al.*, 2004] M. Last, A. Kandel, and H. Bunke, editors. *Data Mining in Time Series Databases*, volume 57 of *Machine Perception and Artificial Intelligence*. World Scientific, 2004.
- [Lausen *et al.*, 1998] G. Lausen, B. Ludäscher, and W. May. On Logical Foundations of Active Databases. In J. Chomicki and G. Saake, editors, *Logics for Databases and Information Systems*, pages 389–422. Kluwer, 1998.
- [Lavrač *et al.*, 1997] N. Lavrač, E.T. Keravnou, and B. Zupan, editors. *Intelligent Data Analysis in Medicine and Pharmacology*. Kluwer Academic Publishers, 1997.
- [Leban *et al.*, 1986] B. Leban, D. McDonald, and D. Foster. A Representation for Collections of Temporal Intervals. In *Proceedings of the Fifth National Conference of the American Association for Artificial Intelligence (AAAI)*, pages 367–371, 1986.
- [Lenzerini, 2002] M. Lenzerini. Data Integration: a Theoretical Perspective. In *Proceedings of the ACM Symposium on Principles of Database Systems (PODS)*, pages 233–246, 2002.
- [Levesque, 1984] H.J. Levesque. Foundations of a Functional Approach to Knowledge Representation. *Artificial Intelligence*, 23:155–212, 1984.
- [Levy *et al.*, 1995] A. Y. Levy, A. O. Mendelzon, Y. Sagiv, and D. Srivastava. Answering Queries Using Views. In *Proceedings of the ACM Symposium on Principles of Database Systems (PODS)*, pages 95–104, 1995.
- [Libkin *et al.*, 2000] L. Libkin, G. Kuper, and J. Paredaens, editors. *Constraint Databases*. Springer, 2000.
- [Lichtenstein and Pnueli, 1985] O. Lichtenstein and A. Pnueli. Checking that Finite State Concurrent Programs Satisfy their Linear Specification. In *Proceedings of the Twelfth ACM Symposium on the Principles of Programming Languages (POPL)*, pages 97–107, New Orleans, USA, January 1985.
- [Lichtenstein *et al.*, 1985] O. Lichtenstein, A. Pnueli, and L. Zuck. The Glory of the Past. In *Logics of Programs*, volume 193 of *Lecture Notes in Computer Science*, pages 196–218. Springer-Verlag, Heidelberg, 1985.
- [Lifschitz and Turner, 1994] V. Lifschitz and H. Turner. Splitting a Logic Program. In P. Van Hentenryck, editor, *Proceedings of the Eleventh International Conference on Logic Programming (ICLP)*, pages 23–38, 1994.

- [Lifschitz, 1987] V. Lifschitz. Formal Theories of Action. In *Proceedings of the Workshop on the Frame Problem*, pages 35–37, 1987.
- [Lifschitz, 1997] V. Lifschitz. On the Logic of Causal Explanation. *Artificial Intelligence*, 96:451–465, 1997.
- [Lifschitz, 1999] V. Lifschitz. Answer Set Planning. In *Proceedings of International Conference on Logic Programming (ICLP)*, pages 23–37, 1999.
- [Ligozat, 1990] G. Ligozat. Weak Representations of Interval Algebras. In *Proceedings of AAAI Conference*, pages 715–720, 1990.
- [Ligozat, 1996] G. Ligozat. A New Proof of Tractability for ORD-Horn Relations. In *Proceedings of the Thirteenth National Conference of the American Association for Artificial Intelligence (AAAI)*, pages 715–720. AAAI Press/The MIT Press, 1996.
- [Lin, 1991] Y. Lin. Two Theories of Time. *Journal of Applied Non-Classical Logics*, 1(1):37–63, 1991.
- [Lin, 1995] F. Lin. Embracing Causality in Specifying the Indirect Effects of Actions. In *Proceedings of the International Joint Conference on Artificial Intelligence (IJCAI)*, pages 1985–1993, 1995.
- [Lin, 1997] F. Lin. Application of the Situation Calculus to Formalizing Control and Strategic Information: the Prolog Cut Operator. In *Proceedings of the International Joint Conference on Artificial Intelligence (IJCAI)*, pages 1412–1418, 1997.
- [Lipski, 1979] W. Lipski. On Semantic Issues Connected with Incomplete Information Databases. *ACM Transactions on Database Systems*, 4(3):262–296, September 1979.
- [Littman, 1997] M. L. Littman. Probabilistic proposition planning: Representations and complexity. In *Proceedings of AAAI Conference*, 1997.
- [Liu and Chen, 1998] J. Liu and R. Chen. Sequential Monte Carlo Methods for Dynamic Systems. *Journal of the American Statistical Association*, 93, 1998.
- [Liu and Orgun, 1997] C. Liu and M. Orgun. Dealing with Multiple Granularity of Time in Temporal Logic Programming. *Journal of Symbolic Computation*, 22(5):699–720, 1997.
- [Lloyd and Topor, 1984] J.W. Lloyd and R.W. Topor. Making Prolog More Expressive. *Journal of Logic Programming*, 1(3):225–240, 1984.
- [Lloyd, 1987] J.W. Lloyd. *Foundations of Logic Programming*. Symbolic Computation Series. Springer-Verlag, 2 edition, 1987.
- [Lobo et al., 1992] J. Lobo, J. Minker, and A. Rajasekar. *Foundations of Disjunctive Logic Programming*. The MIT Press, 1992.
- [Long and Fox, 2003a] D. Long and M. Fox. Exploiting a Graphplan Framework in Temporal Planning. In *Proceedings of International Conference on Automated Planning and Scheduling (ICAPS)*, 2003.
- [Long and Fox, 2003b] D. Long and M. Fox. The 3rd International Planning Competition: Results and Analysis. *Journal of AI Research*, 20, 2003.
- [Long, 1996] W.J. Long. Temporal Reasoning for Diagnosis in a Causal Probabilistic Knowledge Base. *Artificial Intelligence in Medicine*, 8:193–215, 1996.
- [Lorentzos and Mitsopoulos, 1997] N. A. Lorentzos and Y. G. Mitsopoulos. SQL Extension for Interval Data. *IEEE Transactions on Knowledge and Data Engineering*, 9(3):480–499, 1997.
- [Lorentzos et al., 1995] N. A. Lorentzos, A. Poulouvassilis, and C. Small. Manipulation Operations for an Interval-extended Relational Model. *Data and Knowledge Engineering*, 17(1):1–29, 1995.
- [Lorentzos, 1993] N. A. Lorentzos. The Interval-extended Relational Model and Its Application to Valid-time Databases. In Tansel et al. [1993], pages 67–91.

- [Lutz, 1999a] C. Lutz. Complexity of Terminological Reasoning Revisited. In *Proceedings of the Sixth International Conference on Logic for Programming and Automated Reasoning (LPAR)*, pages 181–200. Springer-Verlag, 6 – 10, 1999.
- [Lutz, 1999b] C. Lutz. Reasoning with Concrete Domains. In T. Dean, editor, *Proceedings of the Sixteenth International Joint Conference on Artificial Intelligence (IJCAI)*, pages 90–95, Stockholm, Sweden, 31 – 6, 1999. Morgan-Kaufmann Publishers.
- [Mackaay *et al.*, 1990] E. Mackaay, D. Poulin, J. Fremont, P. Bratley, and C. Deniger. The Logic of Time in Law and Legal Expert Systems. *Ratio Juris*, 3(2):254–271, 1990.
- [Mackworth, 1977] A.K. Mackworth. Consistency in Networks of Relations. *Artificial Intelligence*, 8(1):99–118, 1977.
- [Madden *et al.*, 2002] S. Madden, M. A. Shah, J. M. Hellerstein, and V. Raman. Continuously Adaptive Continuous Queries over Streams. In *Proceedings of the ACM SIGMOD International Conference on Management of Data*, pages 49–60, 2002.
- [Maier, 1986] D. Maier. A Logic for Objects. In *Proceedings of the Workshop on Foundations of Deductive Database and Logic Programming*, 1986.
- [Majercik and Littman, 1999] S. Majercik and M. Littman. Contingent Planning under Uncertainty via Stochastic Satisfiability. In *Proceedings of Sixteenth National Conference on AI*, 1999.
- [Manna and Pnueli, 1992] Z. Manna and A. Pnueli. *The Temporal Logic of Reactive and Concurrent Systems*. Springer-Verlag, Berlin, Heidelberg, New York, 1992.
- [Manna and Pnueli, 1995] Z. Manna and A. Pnueli. *Temporal Verification of Reactive Systems: Safety*. Springer-Verlag, New York, 1995.
- [Manna and Wolper, 1984] Z. Manna and P. Wolper. Synthesis of Communicating Processes from Temporal Logic Specifications. *ACM Transactions on Programming Languages and Systems*, 6(1):68–93, January 1984.
- [Manzano, 1993] M. Manzano. *Many-Sorted Logic and its Applications in Computer Science*, chapter 1 (Introduction to Many-sorted logic; pp. 1-86). John Wiley&Sons. Chichester. (UK), tucker & meinke edition, 1993.
- [Marek and Truszczyński, 1994] W. Marek and M. Truszczyński. Revision Programming, Database Updates and Integrity Constraints. In *Proceedings of Fifth International Conference in Database Theory (ICDT)*, Prague, Czechoslovakia, 1994.
- [Marek and Truszczyński, 1999] W. Marek and M. Truszczyński. Stable Models and an Alternative Logic Programming Paradigm. In Apt, K. and Marek, W. and Truszczyński, M. and Warren, D., editor, *The Logic Programming Paradigm: a 25-Year perspective*, pages 375–398. Springer, 1999.
- [Maruichi *et al.*, 1991] T. Maruichi, M. Ichikawa, and M. Tokoro. Modelling Autonomous Agents and their Groups. In Y. Demazeau and J. P. Müller, editors, *Decentralized AI 2 – Proceedings of the 2nd European Workshop on Modelling Autonomous Agents and Multi-Agent Worlds (MAAMAW)*. Elsevier/North Holland, 1991.
- [McAllester and Rosenblitt, 1991] D. McAllester and D. Rosenblitt. Systematic Nonlinear Planning. In *Proceedings of the Ninth National Conference on Artificial Intelligence (AAAI)*, volume 2, pages 634–639, Anaheim, California, USA, 1991. AAAI Press/MIT Press.
- [McCain and Turner, 1994] N. McCain and H. Turner. Language Independence and Language Tolerance in Logic Programs. In *Proceedings of the Eleventh International Conference on Logic Programming (ICLP)*, pages 38–57, 1994.
- [McCain and Turner, 1995] N. McCain and H. Turner. A causal theory of ramifications and qualifications. In *Proc. of IJCAI 95*, pages 1978–1984, 1995.

- [McCain and Turner, 1997] N. McCain and H. Turner. Causal Theories of Action and Change. In H. Shrobe and T. Senator, editors, *Proceedings of the Thirteenth National Conference on Artificial Intelligence and the Eighth Innovative Applications of Artificial Intelligence Conference (AAAI)*, pages 460–465, Menlo Park, California, 1997. AAAI Press.
- [McCain and Turner, 1998] N. McCain and H. Turner. Satisfiability Planning with Causal Theories. In *Proceedings of International Conference on Principles of Knowledge Representation and Reasoning (KR)*, pages 212–223, 1998.
- [McCarthy and Hayes, 1969] J. McCarthy and P. J. Hayes. Some Philosophical Problems from the Standpoint of Artificial Intelligence. In B. Melzer and D. Michie, editors, *Machine Intelligence 4*. Edinburgh University Press, 1969.
- [McCarthy, 1959] J. McCarthy. Programs with Common Sense. In *Proceedings of the Teddington Conference on the Mechanization of Thought Processes*, pages 75–91, London, 1959. Her Majesty's Stationery Office.
- [McCarthy, 1963] J. McCarthy. Situations, Actions and Causal Laws. Technical Report Memo 2, Stanford Artificial Intelligence Project, 1963.
- [McCarthy, 1980] J. McCarthy. Circumscription – A Form of Non-Monotonic Reasoning. *Artificial Intelligence*, 13:27–39, 1980.
- [McCarty, 1995] L. Thorne McCarty. Some requirements on an action language for legal discourse (position paper). In *Spring Symposium Series '95: Extending Theories of Action*, pages 136–138. AAAI, 1995.
- [McDermott and Doyle, 1980] D. McDermott and J. Doyle. Non-Monotonic Logic I. *Artificial Intelligence*, 13:41–72, 1980.
- [McDermott, 1982] D. McDermott. A Temporal Logic for Reasoning about Processes and Plans. *Cognitive Science*, 6:101–155, 1982.
- [McDermott, 1996] D. McDermott. A Heuristic Estimator for Means Ends Analysis in Planning. In B. Drabble, editor, *Proceedings of the Third International Conference on Artificial Intelligence Planning Systems (AIPS)*, pages 142–149. AAAI Press, 1996.
- [McDermott, 2000] D. McDermott. The 1998 AI Planning Systems Competition. *AI Magazine*, 21(2), 2000.
- [McDermott, 2003] D. McDermott. Reasoning about Autonomous Processes in an Estimated-Regression Planner. In *Proceedings of the International Conference on Automated Planning and Scheduling (ICAPS)*, 2003.
- [McGuire, 1995] H. W. McGuire. *Two Methods for Checking Formulas of Temporal Logic*. PhD thesis, Department of Computer Science, Stanford University, USA, June 1995. Stanford Computer Science Technical Reports CS-TR-95-1551.
- [McNaughton, 1966] R. McNaughton. Testing and Generating Infinite Sequences by Finite Automata. *Information and Control*, 9:521–530, 1966.
- [Meiri, 1991] I. Meiri. Combining Qualitative and Quantitative Constraints in Temporal Reasoning. In *Proceedings of AAAI Conference*, pages 260–267, 1991.
- [Meiri, 1996] I. Meiri. Combining Qualitative and Quantitative Constraints in Temporal Reasoning. *Artificial Intelligence*, 87(1–2):343–385, 1996.
- [Meyer *et al.*, 1999] J.-J. Ch. Meyer, W. van der Hoek, and B. van Linder. A Logical Approach to the Dynamics of Commitments. *Artificial Intelligence*, 113:1–40, 1999.
- [Miksch *et al.*, 1996] S. Miksch, W. Horn, C. Popow, and F. Paky. Utilizing Temporal Data Abstraction for Data Validation and Therapy Planning for Artificially Ventilated Newborn Infants. *Artificial Intelligence in Medicine*, 8(6):543–576, 1996.

- [Miller and Schubert, 1990] S. A. Miller and L.K. Schubert. Time Revisited. *Computational Intelligence*, 6:108–118, 1990.
- [Miller and Shanahan, 1994] R. Miller and M. Shanahan. Narratives in the Situational Calculus. *Journal of Logic and Computation*, 4(5):513–530, 1994.
- [Miller *et al.*, 1982] R.A. Miller, H.E. Pople, and J.D. Myers. INTERNIST-I, An Experimental Computer-Based Diagnostic Consultant for General Internal Medicine. *New England Journal of Medicine*, 307:468–476, 1982.
- [Miller, 1986] P. L. Miller. *Expert Critiquing Systems: Practice-Based Medical Consultation by Computer*. Springer-Verlag, New York, NY, 1986.
- [Miller, 1990] B. Miller. The Rhetorical Knowledge Representation System Reference Manual. Technical Report 326, Department of Computer Science, University of Rochester, Rochester, New York, USA, 1990.
- [Missiaen *et al.*, 1992] L. R. Missiaen, M. Bruynooghe, and M. Denecker. Abductive Planning with Event Calculus. Internal report, Department of Computer Science, K.U.Leuven, 1992.
- [Missiaen *et al.*, 1995] L. R. Missiaen, M. Denecker, and M. Bruynooghe. CHICA, An Abductive Planning System Based on Event Calculus. *Journal of Logic and Computation*, 5(5):579–602, September 1995.
- [Missiaen, 1991a] L. R. Missiaen. Localized Abductive Planning for Robot Assembly. In *Proceedings of the IEEE Conference on Robotics and Automation*, pages 605–610. IEEE Robotics and Automation Society, 1991.
- [Missiaen, 1991b] L. R. Missiaen. *Localized Abductive Planning with the Event Calculus*. PhD thesis, Department of Computer Science, K.U.Leuven, 1991.
- [Miyano and Hayashi, 1984] S. Miyano and T. Hayashi. Alternating Finite Automata on ω -words. *Theoretical Computer Science*, 32:321–330, 1984.
- [Mokhtar *et al.*, 2002] H. Mokhtar, J. Su, and O. Ibarra. On Moving Objects Queries. In *Proceedings of the ACM Symposium on Principles of Database Systems (PODS)*, pages 188–198, 2002.
- [Montanari and de Rijke, 1997] A. Montanari and M. de Rijke. Two-Sorted Metric Temporal Logic. *Theoretical Computer Science*, 183:187–214, 1997.
- [Montanari and Policriti, 1996] A. Montanari and A. Policriti. Decidability Results for Metric and Layered Temporal Logics. *Notre-Dame Journal of Formal Logic*, 37:260–282, 1996.
- [Montanari and Puppis, 2004a] A. Montanari and G. Puppis. Decidability of MSO theories of tree structures. In *Proceedings of the Twenty-Fourth Conference on Foundations of Software Technology and Theoretical Computer Science (FSTTCS)*, Lecture Notes in Computer Science. Springer-Verlag, 2004.
- [Montanari and Puppis, 2004b] A. Montanari and G. Puppis. Decidability of the Theory of the Totally Unbounded ω -Layered Structure. In *Proceedings of the Eleventh International Symposium on Temporal Representation and Reasoning (TIME)*, pages 156–160. IEEE Computer Society Press, 2004.
- [Montanari *et al.*, 1992] A. Montanari, E. Ciapessoni, E. Corsetti, and P. San Pietro. Dealing with Time Granularity in Logical Specifications of Real-Time Systems: The Synchronous Case. Technical Report 7, Dipartimento di Matematica ed Informatica, Università di Udine, Udine (IT), May 1992.
- [Montanari *et al.*, 1999] A. Montanari, A. Peron, and A. Policriti. Theories of Omega-Layered Metric Temporal Structures: Expressiveness and Decidability. *Logic Journal of the IGPL*, 7(1):79–102, 1999.

- [Montanari *et al.*, 2000] A. Montanari, A. Peron, and A. Policriti. The Taming (Timing) of the States. *Logic Journal of the IGPL*, 8(5):681–699, 2000.
- [Montanari *et al.*, 2002a] A. Montanari, A. Peron, and A. Policriti. Extending Kamp’s Theorem to Model Time Granularity. *Journal of Logic and Computation*, 12(4):641–678, 2002.
- [Montanari *et al.*, 2002b] A. Montanari, G. Sciavicco, and N. Vitacolonna. Decidability of Interval Temporal Logics over Split-Frames via Granularity. In *Proceedings of the European Conference on Logic in Artificial Intelligence (JELIA)*, number 2424 in Lecture Notes in Artificial Intelligence, pages 259–270. Springer, 2002.
- [Montanari, 1974] U. Montanari. Networks of Constraints: Fundamental Properties and Applications to Picture Processing. *Information Science*, 7(3):95–132, 1974.
- [Montanari, 1994] A. Montanari. A Layered and Metric Temporal Logic for Time Granularity, Synchrony and Asynchrony. Technical Report MPI-I-94-230, Max-Plank-Institut fuer Informatik, July 1994.
- [Montanari, 1996] A. Montanari. *Metric and Layered Temporal Logic for Time Granularity*. PhD thesis, University of Amsterdam, Amsterdam, Netherlands, september 1996. ILLC Dissertation Series 1996-02.
- [Monti and Peron, 2000] A. Monti and A. Peron. Systolic Tree ω -Languages: The Operational and the Logical View. *Theoretical Computer Science*, 23:1–17, 2000.
- [Monti and Peron, 2001] A. Monti and A. Peron. Logical Definability of Y-Tree and Trellis Systolic ω -Languages. *Acta Cybernetica*, 15:75–100, 2001.
- [Moore, 1990] R. C. Moore. A Formal Theory of Knowledge and Action. In J. F. Allen, J. Hendler, and A. Tate, editors, *Readings in Planning*, pages 480–519. Morgan Kaufmann, 1990.
- [Morris *et al.*, 1997] R. Morris, W. Shoaf, and L. Khatib. Domain Independent Temporal Reasoning with Recurring Events. *Computational Intelligence*, 12(3):450–477, 1997.
- [Morurovic *et al.*, 2000] M. Morurovic, F. Wolter, and M. Zakharyashev. Modalized Description Logic — How Much? Technical report, Computer Science Department, University of Leipzig, Germany, 2000.
- [Moszkowski, 1983] B. Moszkowski. *Reasoning about Digital Circuits*. PhD thesis, Department of Computer Science, Stanford University, Technical Report STAN-CS-83-970, Stanford, CA, USA, 1983.
- [Moszkowski, 1985] B. Moszkowski. A Temporal Logic for Multilevel Reasoning about Hardware. *IEEE Computer*, 18(2), 1985.
- [Moszkowski, 1986] B. Moszkowski. *Executing Temporal Logic Programs*. Cambridge University Press, Cambridge, 1986.
- [Mota *et al.*, 1997] E. Mota, D. Robertson, and A. Smaill. NatureTime: Temporal Granularity in Simulation of Ecosystems. *Journal of Symbolic Computation*, 22(5):665–698, 1997.
- [Mourelatos, 1978] A. P. D. Mourelatos. Events, Processes and States. *Linguistics and Philosophy*, 2:415–434, 1978.
- [Muller *et al.*, 1988] D. Muller, A. Saoudi, and P. Schupp. Weak Alternating Automata give a Simple Explanation of why most Temporal and Dynamic Logics are Decidable in Exponential Time. In *Proceedings of Third IEEE Symposium on Logic in Computer Science (LICS)*, pages 422–427. IEEE, 1988.
- [Muller *et al.*, 1995] J.-C. Muller, J.-P. Lagrange, R. Weibel, and F. Salgé. Generalization: State of the Art and Issues. In J.-C. Muller, J.-P. Lagrange, and R. Weibel, editors, *GIS and Generalization*, pages 3–17. Taylor and Francis, London (GB), 1995.

- [Muller, 1963] D. Muller. Infinite Sequences and Finite Machines. In *Proceedings of the Fourth Annual IEEE Symposium on Switching Circuit Theory and Logical Design*, pages 3–16, 1963.
- [Murray, 1982] N. V. Murray. Completely Non-Clausal Theorem Proving. *Artificial Intelligence*, 18:67–85, 1982.
- [Muscettola *et al.*, 1998] N. Muscettola, P. Nayak, B. Pell, and B. Williams. Remote Agent: To Boldly Go Where No AI System Has Gone Before. *Artificial Intelligence*, 103(1-2):5–48, 1998.
- [Muscettola, 1994] N. Muscettola. HSTS: Integrating Planning and Scheduling. In M. Zweben and M.S. Fox, editors, *Intelligent Scheduling*, pages 169–212. Morgan Kaufmann, San Mateo, CA, 1994.
- [Musen *et al.*, 1992] M.A. Musen, C.W. Carlson, L.M. Fagan, S.C. Deresinski, and E. H. Shortliffe. T-HELPER: Automated Support for Community-Based Clinical Research. In M.E. Frisse, editor, *Proceedings of the Sixteenth Annual Symposium on Computer Applications in Medical Care (SCAMC)*, pages 719–723. McGraw Hill, 1992.
- [Musen *et al.*, 1996] M.A. Musen, S.W. Tu, A.K. Das, and Y. Shahar. EON: A Component-Based Approach to Automation of Protocol-Directed Therapy. *Journal of the American Medical Informatics Association*, 3(6):367–388, 1996.
- [Mylopoulos *et al.*, 1990] J. Mylopoulos, A. Borgida, M. Jarke, and M. Koubarakis. Telos: A Language for Representing Knowledge About Information Systems. *ACM Transactions on Information Systems*, 8(4):325–362, October 1990.
- [Nau *et al.*, 1999] D. Nau, Y. Cao, A. Lotem, and H. Muñoz-Avila. SHOP: Simple Hierarchical Ordered Planner. In *Proceedings of the International Joint Conference on Artificial Intelligence (IJCAI)*, 1999.
- [Nau *et al.*, 2003] D. Nau, T.C. Au, O. Ilghami, U. Kuter, J.W. Murdoch, D. Woo, and F. Yaman. SHOP2: an HTN Planning Environment. *Journal of AI Research*, 2003.
- [Navarrete and Marin, 1997a] I. Navarrete and R. Marin. Qualitative Temporal Reasoning with Points and Durations. In *Proceedings of International Joint Conference on Artificial Intelligence (IJCAI)*, pages 1454–1459. Morgan Kaufmann, 1997.
- [Navarrete and Marin, 1997b] Isabel Navarrete and Roque Marin. Qualitative temporal reasoning with points and durations. In Martha E. Pollack, editor, *Proceedings of the Fifteenth International Joint Conference on Artificial Intelligence (IJCAI)*, Nagoya, Japan, August 1997. Morgan Kaufmann.
- [Nebel and Bürckert, 1995] B. Nebel and H-J. Bürckert. Reasoning about Temporal Relations: A Maximal Tractable Subclass of Allen’s Interval Algebra. *Journal of the ACM*, 42(1):43–66, 1995.
- [Nebel, 1997] B. Nebel. Solving Hard Qualitative Temporal Reasoning Problems: Evaluating the Efficiency of Using the ORD-Horn Class. *CONSTRAINTS*, 1(3):175–190, 1997.
- [Nebel, 2000] B. Nebel. On the Compilability and Expressive Power of Propositional Planning Formalisms. *Journal of Artificial Intelligence Research*, 12:271–315, 2000.
- [Newton-Smith, 1980] W.H. Newton-Smith. *The Structure of Time*. Routledge & Heagan Paul, 1980.
- [Newton, 1936] I. Newton. *Mathematical Principles of Natural Philosophy*. F. Cajori Ed., 1936.
- [Ngo *et al.*, 1995] L. Ngo, P. Haddawy, and J. Helwig. A Theoretical Framework for Context-Sensitive Temporal Probability Model Construction with Application to Plan Projection. In *Proceedings on International Conference on Uncertainty in AI (UAI)*, 1995.
- [Nguyen and Kambhampati, 2001] X. Nguyen and S. Kambhampati. Reviving Partial Order Planning. In *Proceedings of the International Joint Conference on Artificial Intelligence (IJCAI)*, pages 459–466, 2001.

- [Nguyen *et al.*, 1999] J. Nguyen, Y. Shahar, S.W. Tu, A.K. Das, and M.A. Musen. Integration of Temporal Reasoning and Temporal-Data Maintenance into a Reusable Database Mediator to Answer Abstract, Time-Oriented Queries: The Tzolkín System. *Journal of Intelligent Information Systems*, 13(1/2):121–145, 1999.
- [Nicholson and Brady, 1994] A.E. Nicholson and J.M. Brady. Dynamic Belief Networks for Discrete Monitoring. *IEEE Transactions on Systems, Man and Cybernetics*, 24(11):1593–610, November 1994.
- [Niemelä and Simons, 1997] I. Niemelä and P. Simons. Smodels – An Implementation of the Stable Model and Well-Founded Semantics for Normal Logic Programs. In J. Dix, U. Furbach, and A. Nerode, editors, *Proceedings of the Fourth International Conference on Logic Programming and Non-Monotonic Reasoning (LPNMR)*, pages 420–429. Springer, 1997.
- [Niemelä, 1999] I. Niemelä. Logic Programs with Stable Model Semantics as a Constraint Programming Paradigm. *Annals of Mathematics and Artificial Intelligence*, 25(3-4):241–271, 1999.
- [Niézette and Stevenne, 1992] M. Niézette and J.-M. Stevenne. An Efficient Symbolic Representation of Periodic Time. In *Proceedings of the International Conference on Information and Knowledge Management (CIKM)*, pages 161–168, Baltimore, USA, 1992. ACM Press.
- [Nishida and Doshita, 1987] T. Nishida and S. Doshita. Reasoning about Discontinuous Change. In *Proceedings of the Sixth (US) National Conference on Artificial Intelligence (AAAI)*, pages 643–648. AAAI press, 1987.
- [Nitta *et al.*, 1988] K. Nitta, J. Nagao, and M. Tetsuya. A Knowledge Representation and Inference System for Procedural Law. *New Generation Computing*, 5:319–359, 1988.
- [Nivat and Perrin, 1986] M. Nivat and D. Perrin. Ensembles Reconnaissables de mot Biinfinis. *Canadian Journal of Mathematics*, 38:513–537, 1986.
- [Nökel, 1991] K. Nökel. *Temporally Distributed Symptoms in Technical Diagnosis*, volume 517. Springer-Verlag, Berlin, Heidelberg, New York, 1991.
- [O'Connor *et al.*, 2002] M. J. O'Connor, S. W. Tu, and M. A. Musen. The Chronus II Temporal Database Mediator. In *Proceedings of the American Medical Informatics Association (AMIA) Annual Fall Symposium*, San Antonio, USA, 2002.
- [Ohlbach, 1993] H.-J. Ohlbach. Translation Methods for Non-Classical Logics – An Overview. *Journal of the IGPL*, 1(1):69–90, 1993.
- [Ohno-Machado *et al.*, 1998] L. Ohno-Machado, J. Gennari, S. Murphy, and et al. The Guideline Interchange Format: A Model for Representing Guidelines. *Journal of the American Medical Informatics Association*, 5:357–72, 1998.
- [Ohrstrom and Hasle, 1995] P. Ohrstrom and Per F. V. Hasle. *Temporal Logic: From Ancient Ideas to Artificial Intelligence*, volume 57 of *Studies in Linguistics and Philosophy*. Kluwer Academic Publishers, Dordrecht, The Netherlands, 1995.
- [Onder and Pollack, 1999] N. Onder and M. Pollack. Conditional Probabilistic Planning: A Unifying Algorithm and Effective Search Control Mechanisms. In *Proceedings of Sixteenth (US) National Conference on Artificial Intelligence (AAAI)*, 1999.
- [Orgun, 1996] M.A. Orgun. On Temporal Deductive Databases. *Computational Intelligence*, 12(2):235–259, 1996.
- [Özsoyöglu and Snodgrass, 1995] R. Özsoyöglu and T. Snodgrass. Temporal and Real-Time Databases: A Survey. *IEEE Transactions of Knowledge and Data Engineering*, 7:513–532, 1995.
- [Paech, 1988] B. Paech. Gentzen-Systems for Propositional Temporal Logics. In E. Börger, H. Kleine Büning, and M. Richter, editors, *Proceedings of Conference on Computer Science Logic (CSL)*, volume 385 of *Lecture Notes in Computer Science*, pages 240–253, 1988.

- [Papadias *et al.*, 1995] D. Papadias, Y. Theodoridis, T. Sellis, and M. Egenhofer. Topological Relations in the World of Minimum Bounding Rectangles: A Study with R-trees. In *Proceedings of the ACM SIGMOD International Conference on Management of Data*, pages 92–103, 1995.
- [Partee, 1997] B. Partee. Montague Grammar. In J. van Benthem and A. ter Meulen, editors, *Handbook of Logic and Language*, pages 5–91. MIT/Elsevier, 1997.
- [Pearce and Wagner, 1989] D. Pearce and G. Wagner. Reasoning with Negative Information 1 – Strong Negation in Logic Programming. Technical report, Gruppe für Logic, Wissenschaft und Information, Freie Universität Berlin, Berlin, Germany, 1989.
- [Pearl, 1988] J. Pearl. *Probabilistic Reasoning in Intelligent Systems*. Morgan Kaufmann, San Mateo, CA, 1988.
- [Pednault, 1986a] E. P. D. Pednault. Formulating Multiagent, Dynamic-World Problems in the Classical Planning Framework. In M.P. Georgeff and A.L. Lansky, editors, *Proceedings of the Timberline Oregon Workshop on Reasoning about Actions and Plans*, 1986.
- [Pednault, 1986b] E. P. D. Pednault. Towards a Mathematical Theory of Plan Synthesis. Technical Report Ph.D. Thesis, Department of Electrical Engineering, Stanford University, Palo Alto, USA, 1986.
- [Pednault, 1989] E. P. D. Pednault. ADL: Exploring the Middle Ground between STRIPS and the Situation Calculus. In *Proceedings of International Conference on Principles of Knowledge Representation and Reasoning (KR)*, pages 324–332, 1989.
- [Pe’er and Shamir, 1997] I. Pe’er and R. Shamir. Satisfiability Problems on Intervals and Unit Intervals. *Theoretical Computer Science*, 175:349–372, 1997.
- [Peirce, 1955] C. S. Peirce. *Philosophical Writings of Peirce*. Dover Publications, New York, 1955.
- [Peleg *et al.*, 2001] M. Peleg, A. Boxwala, E. Bernstam, S.W. Tu, R.A. Greenes, and E.H. Shortliffe. Sharable Representation of Clinical Guidelines in GLIF: Relationship to the Arden Syntax. *Journal of Biomedical Informatics*, 34:170–181, 2001.
- [Penberthy and Weld, 1992] J. Penberthy and D.S. Weld. UCPOP: a Sound, Complete, Partial-Order Planner for ADL. In *Proceedings of International Conference on Principles of Knowledge Representation and Reasoning (KR)*, pages 103–114, Los Altos, CA, 1992. Kaufmann.
- [Penberthy and Weld, 1994] J. Penberthy and D. Weld. Temporal Planning with Continuous Change. In *Proceedings of Twelfth (US) National Conference on Artificial Intelligence (AAAI)*. AAAI/MIT Press, 1994.
- [Penberthy, 1993] J. Penberthy. Planning with Continuous Change. Technical Report 93-12-01, Department of Computer Science & Engineering, University of Washington, USA, 1993.
- [Peng and Reggia, 1990] Y. Peng and J.A. Reggia. *Abductive Inference Models for Diagnostic Problem Solving*. Springer-Verlag, 1990.
- [Pereira *et al.*, 1990] L. Pereira, L. Caires, and J. Alferes. Classical negation in logic programs. In *7 Simposio Brasileiro de Inteligencia Artificial*, 1990.
- [Perrin and Schupp, 1986] D. Perrin and P. E. Schupp. Automata on the Integers, Recurrence Distinguishability, and the Equivalence and Decidability of Monadic Theories. In *Proceedings of International Symposium on Logic in Computer Science (LICS)*, pages 301–304, Cambridge, USA, 16–18 June 1986. IEEE Computer Society.
- [Perrin, 1990] D. Perrin. Finite Automata. In J. van Leeuwen, editor, *Handbook of Theoretical Computer Science*, volume B. Elsevier, Amsterdam, 1990.
- [Pinto and R.Reiter, 1993] J. Pinto and R.Reiter. Temporal Reasoning in Logic Programming: A Case for the Situation Calculus. In *Proceedings of the International Conference on Logic Programming (ICLP)*, pages 203–221, 1993.

- [Pinto, 1994] J. Pinto. *Temporal Reasoning in the Situation Calculus*. PhD thesis, University of Toronto, Toronto, Ontario, Canada, February 1994.
- [Pliuškevičius, 2001] R. Pliuškevičius. Deduction-Based Decision Procedure for a Clausal Miniscope Fragment of FTL. In *Proceedings of the First International Joint Conference on Automated Reasoning (IJCAR)*, volume 2083 of *Lecture Notes in Artificial Intelligence*, pages 107–120. Springer, 2001.
- [Pnueli, 1977] A. Pnueli. The Temporal Logic of Programs. In *Proceedings of the Eighteenth IEEE Symposium on the Foundations of Computer Science (FOCS)*, pages 46–57, Providence, USA, 31–2 1977. IEEE Computer Society Press.
- [Pnueli, 1986] A. Pnueli. Specification and Development of Reactive Systems. In *Proceedings of Information Processing Conference*. Elsevier, 1986.
- [Poesio and Brachman, 1991] M. Poesio and R.J. Brachman. Metric Constraints for Maintaining Appointments: Dates and Repeated Activities. In *Proceedings of the Ninth National Conference of the American Association for Artificial Intelligence*, pages 253–259. The MIT press, 1991.
- [Poole *et al.*, 1998] D. Poole, A. Mackworth, and R. Goebel. *Computational Intelligence*. Oxford University Press, 1998.
- [Poole, 1988] D. Poole. A Logical Framework for Default Reasoning. *Artificial Intelligence*, 36:27–47, 1988.
- [Popkorn, 1994] S. Popkorn. *First Steps in Modal Logic*. Cambridge, 1994.
- [Pople, 1973] H. Pople. On the Mechanization of Abductive Logic. In *Proceedings of the Third International Joint Conference on Artificial Intelligence (IJCAI)*, pages 147–152, 1973.
- [Poulin *et al.*, 1992] D. Poulin, E. Mackaay, P. Bratley, and J. Fremont. Time Server — A Legal Time Specialist. In A. Martino, editor, *Expert Systems in Law*, pages 295–312, 1992.
- [Prior, 1957] A. Prior. *Time and Modality*. Oxford University Press, 1957.
- [Prior, 1967] A. Prior. *Past, Present and Future*. Oxford (Clarendon Press), 1967.
- [Provan, 1993] G. Provan. Tradeoffs in Constructing and Evaluating Temporal Influence Diagrams. In *Proceedings of International Conference on Uncertainty in Artificial Intelligence (UAI)*, pages 40–47, 1993.
- [Proveti, 1996] A. Proveti. Hypothetical Reasoning: From Situation Calculus to Event Calculus. *Computational Intelligence*, 12(3), 1996.
- [Przymusiński, 1990] T. Przymusiński. Extended Stable Semantics for Normal and Disjunctive Programs. In D. Warren and P. Szeredi, editors, *Proceedings of the Seventh International Conference on Logic Programming (ICLP)*, pages 459–477, 1990.
- [Psillos, 1996] S. Psillos. Ampliative Reasoning: Induction or Abduction. In *ECAI-96 workshop on Abductive and Inductive Reasoning*, 1996.
- [Pujari and Sattar, 1999] K. Pujari and A. Sattar. A New Framework for Reasoning about Points, Intervals and Durations. In Thomas Dean, editor, *Proceedings of the Sixteenth International Joint Conference on Artificial Intelligence (IJCAI)*, pages 1259–1267, Stockholm, Sweden, July 1999. Morgan Kaufmann.
- [Pujari *et al.*, 1999] K. Pujari, G.V. Kumari, and A. Sattar. INDU: An Interval and Duration Network. In *Proceedings of Australian Joint Conference on Artificial Intelligence*, pages 291–303, 1999.
- [Puppo and Dettori, 1995] E. Puppo and G. Dettori. Towards a Formal Model for Multi-Resolution Spatial Maps. *Lecture Notes in Computer Science*, 951:152–169, 1995.
- [Rabideau *et al.*, 1999] G. Rabideau, R. Knight, S. Chien, A. Fukunaga, and A. Govindjee. Iterative Repair Planning for Spacecraft Operations in the ASPEN System. In *Proceedings of the International Symposium on Artificial Intelligence Robotics and Automation in Space (ISAIRAS)*, 1999.

- [Rabin and Scott, 1959] M. Rabin and D. Scott. Finite Automata and their Decision Problem. *IBM Journal of Research*, 3:115–124, 1959.
- [Rabin, 1969] M. Rabin. Decidability of Second-Order Theories and Automata on Infinite Trees. *Transactions of the American Mathematical Society*, 141:1–35, 1969.
- [Rabin, 1972] M. Rabin. *Automata on Infinite Objects and Church's Problem*. American Mathematical Society, 1972.
- [Randell *et al.*, 1992] D. Randell, Z. Cui, and A. Cohn. A Spatial Logic based on Regions and Connection. In *Proceedings of the Third International Conference on Principles of Knowledge Representation and Reasoning (KR)*, pages 165–176, 1992.
- [Rao and Georgeff, 1991] A. S. Rao and M. P. Georgeff. Modeling Agents within a BDI-Architecture. In R. Fikes and E. Sandewall, editors, *Proceedings of the International Conference on Principles of Knowledge Representation and Reasoning (KR)*, Cambridge, Massachusetts, April 1991. Morgan Kaufmann.
- [Rao and Georgeff, 1993] A. S. Rao and M. P. Georgeff. A Model-Theoretic Approach to the Verification of Situated Reasoning Systems. In *Proceedings of the Thirteenth International Joint Conference on Artificial Intelligence (IJCAI-93)*, pages 318–324, Chambéry, France, 1993.
- [Rao and Georgeff, 1995] A. S. Rao and M. P. Georgeff. BDI Agents: from Theory to Practice. In *Proceedings of the First International Conference on Multi-Agent Systems (ICMAS)*, pages 312–319, San Francisco, USA, June 1995.
- [Rautenberg, 1979] W. Rautenberg. *Klassische und Nichtklassische Aussagenlogik*. Vieweg, 1979.
- [Rautenberg, 1983] W. Rautenberg. Modal Tableau Calculi and Interpolation. *Journal of Philosophical Logic*, 12:403–423, 1983.
- [Rector, 2001] A. Rector. AIM: A Personal View of Where I Have Been and Where We Might Be Going. *Artificial Intelligence in Medicine*, 23:111–127, 2001.
- [Reddy and Loveland, 1978] C. R. Reddy and D. W. Loveland. Presburger Arithmetic with Bounded Quantifier Alternation. In *Proceedings of the ACM Symposium on the Theory of Computing (STOC)*, pages 320–325, 1978.
- [Reichgelt, 1987] H. Reichgelt. Semantics for Reified Temporal Logics. In J. Hallam and C. Mellish, editors, *Advances in Artificial Intelligence*, pages 49–61. John Wiley and Sons, 1987.
- [Reichgelt, 1989] H. Reichgelt. A Comparison of First Order and Modal Logics of Time. In P. Jackson, H. Reichgelt, and F. van Harmelen, editors, *Logic-Based Knowledge Representation*, pages 143–176. MIT Press, 1989.
- [Reiter, 1978] R. Reiter. On Closed World Data Bases. In H. Gallaire and J. Minker, editors, *Logic and Data Bases*, pages 119–140. Plenum Press, New York, 1978.
- [Reiter, 1980a] R. Reiter. A Logic for Default Reasoning. *Artificial Intelligence*, 13:81–132, 1980.
- [Reiter, 1980b] R. Reiter. Equality and Domain Closure in First-Order Databases. *Journal of the ACM*, 27:235–249, 1980.
- [Reiter, 1984] R. Reiter. Towards a Logical Reconstruction of Relational Database Theory. In M. Brodie, J. Mylopoulos, and J. Schmidt, editors, *On Conceptual Modelling: Perspectives from Artificial Intelligence, Databases and Programming Languages*, pages 191–233. Springer Verlag, 1984.
- [Reiter, 1988] R. Reiter. On Integrity Constraints. In *Proceedings of the Second Conference on Theoretical Aspects of Reasoning About Knowledge (TARK)*, pages 97–111, Asilomar, USA, 1988.
- [Reiter, 1991] R. Reiter. The Frame Problem in the Situation Calculus: A simple Solution (Sometimes) and a Completeness Result for Goal Regression. In V. Lifschitz, editor, *Artificial Intelligence and Mathematical Theory of Computation: Papers in Honour of John McCarthy*, pages 359–380. Academic Press, 1991.

- [Reiter, 2001] R. Reiter. *Knowledge in Action*. MIT press, 2001.
- [Renz and Nebel, 1997] J. Renz and B. Nebel. On the Complexity of Qualitative Spatial Reasoning: A Maximal Tractable Fragment of the Region Connection Calculus. In *Proceedings of the Fifteenth International Joint Conference on Artificial Intelligence (IJCAI)*, pages 522–527. Morgan Kaufmann, 1997.
- [Rescher and Garson, 1968] N. Rescher and J. Garson. Topological Logic. *Journal of Symbolic Logic*, 33:537–548, 1968.
- [Rescher and Urquhart, 1971] N. Rescher and A. Urquhart. *Temporal Logic*. Library of Exact Philosophy. Springer Verlag, 1971.
- [Reynolds, 1992] M. Reynolds. An Axiomatization for Until and Since over the Reals without the IRR rule. *Studia Logica*, 51:165–193, May 1992.
- [Reynolds, 1994] M. Reynolds. Axiomatizing U and S over Integer Time. In D. Gabbay and H.-J. Ohlbach, editors, *Proceedings of the First International Conference on Temporal Logic (ICTL)*, volume 827 of *Lecture Notes in Artificial Intelligence*, pages 117–132, Bonn, Germany, July 1994. Springer-Verlag.
- [Reynolds, 1996] M. Reynolds. Axiomatizing First-Order Temporal Logic: Until and Since over Linear Time. *Studia Logica*, 57:279–302, 1996.
- [Reynolds, 1998] M. Reynolds. A Decidable Logic of Parallelism. *Notre Dame Journal of Formal Logic*, 1998.
- [Reynolds, 2000] M. Reynolds. More Past Glories. In *Proceedings of Fifteenth Annual IEEE Symposium on Logic in Computer Science (LICS)*, pages 229–240. IEEE, June 2000.
- [Reynolds, 2001] M. Reynolds. An Axiomatization of Full Computation Tree Logic. *Journal of Symbolic Logic*, 66(3):1011–1057, 2001.
- [Reynolds, 2003] M. Reynolds. An Axiomatization of PCTL*. *Information and Computation*, 2003.
- [Rigaux and Scholl, 1995] P. Rigaux and M. Scholl. Multi-Scale Partitions: Application to Spatial and Statistical Databases. In *Proceedings of the Fourth International Symposium on Spatial Databases (SSD)*, volume 951 of *Lecture Notes in Computer Science*, pages 170–183. Springer-Verlag, 1995.
- [Rinner and Kuipers, 1999] B. Rinner and B. Kuipers. Monitoring Piecewise Continuous Behaviors by Refining Semi-Quantative Trackers. In *Proceedings of the Sixteenth International Joint Conference on Artificial Intelligence (IJCAI)*, pages 1080–1086, 1999.
- [Rintannen, 1999] J. Rintannen. Constructing Conditional Plans by a Theorem Prover. *Journal of AI Research*, 10:323–352, 1999.
- [Rit, 1986] J. F. Rit. Propagating Temporal Constraints for Scheduling. In *Proceedings of the Fifth National Conference of the American Association for Artificial Intelligence (AAAI)*, pages 383–388. Morgan Kaufmann, 1986.
- [Robinson, 1965] J. A. Robinson. A Machine-Oriented Logic Based on the Resolution Principle. *Journal of the ACM*, 12(1):23–41, January 1965.
- [Roman, 1990] G. Roman. Formal Specification of Geographic Data Processing Requirements. *IEEE Transaction on Knowledge and Data Engineering*, 2(4):177–192, 1990.
- [Rosner and Pnueli, 1986] R. Rosner and A. Pnueli. A Choppy Logic. In *Proceedings of the Symposium on Logic in Computer Science (LICS)*, pages 306–313. IEEE Computer Society, June 1986.
- [Russ, 1989] T. A. Russ. Using Hindsight in Medical Decision Making. In *Proceedings of the Symposium on Computer Applications in Medical Care (SMAMC)*, pages 38–44, New York, USA, 1989. IEEE Computer Society Press.

- [Russ, 1995] T. A. Russ. Use of Data Abstraction Methods to Simplify Monitoring. *Artificial Intelligence in Medicine*, 7:497–514, 1995.
- [Russell and Norvig, 1995] S. Russell and P. Norvig. *Artificial Intelligence: a Modern Approach*. Prentice Hall, 1995.
- [Russell, 1956] B. Russell. On Order in Time. In R.C. Marsh, editor, *Bertrand Russell: Logic and Knowledge (essays 1901–1950)*. Routledge, 1956.
- [Sacerdoti, 1975] E. D. Sacerdoti. The Nonlinear Nature of Plans. In *Proceedings of the Fourth International Joint Conference on Artificial Intelligence (IJCA)*, pages 206–214, Tbilisi, Georgia, USSR, September 1975.
- [Sadri and Kowalski, 1995] F. Sadri and R. Kowalski. Variants of the Event Calculus. In L. Sterling, editor, *Proceedings of the International Conference on Logic Programming (ICLP)*, 1995.
- [Safra, 1988] S. Safra. On the Complexity of ω -Automata. In *Proceedings of Twenty-Ninth IEEE Symposium on the Foundations of Computer Science (FOCS)*, 1988.
- [Salzberg and Tsotras, 1999] B. Salzberg and V. J. Tsotras. Comparison of Access Methods for Time-Evolving Data. *ACM Computing Surveys*, 31(2):158–221, 1999.
- [Sandewall, 1994] E. Sandewall. *Features and Fluents: The Representation of Knowledge about Dynamical Systems*, volume I. Oxford University Press, 1994.
- [Schild, 1991] K. Schild. A Correspondence Theory for Terminological Logics: Preliminary Report. In *Proceedings of the Twelfth International Joint Conference on Artificial Intelligence (IJCAI)*, pages 466–471, Sidney, Australia, 1991.
- [Schild, 1993] K. Schild. Combining Terminological Logics with Tense Logic. In M. Filgueiras and L. Damas, editors, *Progress in Artificial Intelligence – Proceedings of the Sixth Portuguese Conference on Artificial Intelligence (EPIA)*, volume 727 of *Lecture Notes in Computer Science*, Porto, Portugal, October 1993. Springer.
- [Schmiedel, 1990] A. Schmiedel. A Temporal Terminological Logic. In *Proceedings of the Eighth National Conference of the American Association for Artificial Intelligence (AAAI)*, pages 640–645. AAAI Press/The MIT Press, 1990.
- [Schrag and Boddy, 1991] B. Schrag and M. Boddy. β -TMM Functional Description. Technical report, Honeywell SRC, USA, 1991.
- [Schrag *et al.*, 1992] R. Schrag, M. Boddy, and J. Carciofini. Managing Disjunction for Practical Temporal Reasoning. In Swartout and Nebel [1992], pages 36–46.
- [Schrijver, 1986] A. Schrijver, editor. *Theory of Integer and Linear Programming*. Wiley, 1986.
- [Schubert and Hwang, 1989] L.K. Schubert and C. H. Hwang. An Episodic Knowledge Representation for Narrative Texts. In *Proceedings of the First International Conference on Principles of Knowledge Representation and Reasoning (KR)*, pages 444–458, Toronto, Canada, 1989. Morgan Kaufmann.
- [Schubert *et al.*, 1987] L. K. Schubert, M. A. Papalaskaris, and J. Taugher. Accelerating Deductive Inference: Special Methods for Taxonomies, Colours, and Times. In N. Cercone and G. McCalla, editors, *The Knowledge Frontier: Essays in the Representation of Knowledge*, pages 187–220. Springer-Verlag, Berlin, Heidelberg, New York, 1987.
- [Schubert, 1990] L. Schubert. Monotonic Solution of the Frame Problem in the Situation Calculus: An Efficient Method for Worlds with Fully Specified Actions. In *Knowledge Representation and Defeasible Reasoning*, pages 23–67. Kluwer Academic Press, 1990.
- [Schwalb and Dechter, 1997] E. Schwalb and R. Dechter. Processing Disjunctions in Temporal Constraint Networks. *Artificial Intelligence*, 93:29–61, 1997.

- [Schwalb and Vila, 1998] E. Schwalb and L. Vila. Processing Metric Temporal Constraints, 1998.
- [Schwalb *et al.*, 1994] E. Schwalb, K. Kask, and R. Dechter. Temporal Reasoning with Constraints on Fluents and Events. In *Proceedings of (US) National Conference on Artificial Intelligence (AAAI)*. AAAI press, 1994.
- [Schwalb *et al.*, 1996] E. Schwalb, L. Vila, and R. Dechter. Temporal Constraint Logic Programming. Technical report, UC Irvine, California, USA, 1996.
- [Schwalb, 1996] E. Schwalb. Personal Communication, 1996.
- [Schwendimann, 1998a] S. Schwendimann. A New One-Pass Tableau Calculus for PLTL. In H. de Swart, editor, *Proceedings of Tableaux Workshop*, volume 1397 of *Lecture Notes in Artificial Intelligence*, pages 277–291. Springer-Verlag, 1998.
- [Schwendimann, 1998b] S. Schwendimann. *Aspects of Computational Logic*. PhD thesis, University of Bern, Switzerland, 1998.
- [Scott, 2002] S. L. Scott. Bayesian Methods for Hidden Markov Models. Recursive Computing in the 21st Century. *Journal of the American Statistical Association*, 97:337–351, 2002.
- [Sergot, 1988] M. Sergot. Representing Legislation as Logic Programs. In Hayes, Michie, and Richards, editors, *Machine Intelligence*, pages 209–260. Oxford University Press, 1988.
- [Sergot, 1995] M. Sergot. Using Logic for Knowledge Representation in Legal Knowledge Based System. Tutorial Notes from the Fifth International Conference on Artificial Intelligence in Law, May 1995.
- [Shahar and Cheng, 1999] Y. Shahar and C. Cheng. Intelligent Visualization and Exploration of Time-Oriented Clinical Data. *Topics in Health Information Systems*, 20(2):15–31, 1999.
- [Shahar and Cheng, 2000] Y. Shahar and C. Cheng. Model-Based Visualization of Temporal Abstractions. *Computational Intelligence*, 16(2):279–306, 2000.
- [Shahar and Molina, 1998] Y. Shahar and M. Molina. Knowledge-Based Spatiotemporal Linear Abstraction. *Pattern Analysis and Applications*, 1(2):91–104, 1998.
- [Shahar and Musen, 1996] Y. Shahar and M.A. Musen. Knowledge-Based Temporal Abstraction in Clinical Domains. *Artificial Intelligence in Medicine*, 8(3):267–298, 1996.
- [Shahar *et al.*, 1998] Y. Shahar, S. Miksch, and P.D. Johnson. The Asgaard Project: A Task-Specific Framework for the Application and Critiquing of Time-Oriented Clinical Guidelines. *Artificial Intelligence in Medicine*, 14:29–51, 1998.
- [Shahar *et al.*, 1999] Y. Shahar, H. Chen, D. Stites, L. Basso, H. Kaizer, D. Wilson, and M.A. Musen. Semiautomated Acquisition of Clinical Temporal-Abstraction Knowledge. *Journal of the American Medical Informatics Association*, 6(6):494–511, 1999.
- [Shahar *et al.*, 2003a] Y. Shahar, D. Boaz, G. Tahan, M. Galperin, D. Goren-Bar, H. Kaizer, L.V. Basso, S.B. Martins, and M.K. Goldstein. Interactive Visualization and Exploration of Time-Oriented Clinical Data using a Distributed Temporal-Abstraction Architecture. In *Proceedings of the AMIA Annual Fall Symposium*, Washington (DC), USA., 2003.
- [Shahar *et al.*, 2003b] Y. Shahar, E. Shalom, A. Mayaffit, O. Young, M. Galperin, S.B. Martins, and M.K. Goldstein. A Distributed, Collaborative, Structuring Model for a Clinical-Guideline Digital-Library. In *Proceedings of the AMIA Annual Fall Symposium*, Washington (DC), USA., 2003.
- [Shahar *et al.*, 2003c] Y. Shahar, O. Young, E. Shalom, A. Mayaffit, R. Moskovitch, A. Hessing, and M. Galperin. DEGEL: A Hybrid, Multiple-Ontology Framework for Specification and Retrieval of Clinical Guidelines. In *Proceedings of the Ninth Conference on Artificial Intelligence in Medicine — Europe (AIME)*, Protaras, Cyprus, 2003.
- [Shahar, 1997] Y. Shahar. A Framework for Knowledge-Based Temporal Abstraction. *Artificial Intelligence*, 90(1):79–133, 1997.

- [Shahar, 1998] Y. Shahar. Dynamic Temporal Interpretation Contexts for Temporal Abstraction. *Annals of Mathematics and Artificial Intelligence*, 22(1–2):159–192, 1998.
- [Shahar, 1999] Y. Shahar. Knowledge-Based Temporal Interpolation. *Journal of Experimental and Theoretical Artificial Intelligence*, 11:123–144, 1999.
- [Shanahan and Southwick, 1989] M. Shanahan and R. Southwick. *Search, Inference and Dependencies in Artificial Intelligence*. Ellis Horwood, New York, Chichester, Brisbane, Toronto, 1989.
- [Shanahan, 1987] M. Shanahan. *Solving the Frame Problem: A Mathematical Investigation of the Common Sense Law of Inertia*. MIT Press, 1987.
- [Shanahan, 1989] M. Shanahan. Prediction is Deduction but Explanation is Abduction. In *Proceedings of the International Joint Conference on Artificial Intelligence (IJCAI)*, page 1055, 1989.
- [Shanahan, 1990] M. Shanahan. Representing Continuous Change in the Event Calculus. In *Proceedings of the European Conference on Artificial Intelligence (ECAI)*, page 598, 1990.
- [Shanahan, 1999] M. P. Shanahan. The Event Calculus Explained. In M. J. Wooldridge and M. Veloso, editors, *Artificial Intelligence Today*, volume 1600 of *Lecture Notes in Artificial Intelligence*, pages 409–430. Springer, 1999.
- [Sherman *et al.*, 1995] E.H. Sherman, G. Hripcsak, J. Starren, R.A. Jender, and P. Clayton. Using Intermediate States to Improve the Ability of the Arden Syntax to Implement Care Plans and Reuse Knowledge. In R. M. Gardner, editor, *Proceedings of the Annual Symposium on Computer Applications in Medical Care (SCAMC)*, pages 238–242, New Orleans, USA, 1995. Hanley & Belfus.
- [Shiffman *et al.*, 2000] R. Shiffman, B. Karras, A. Agrawal, R. Chen, L. Marengo, and S. Nath. GEM: A Proposal for a More Comprehensive Guideline Document Model using XML. *Journal of the American Medical Informatics Association*, 7(5):488–498, 2000.
- [Shoham and McDermott, 1988] Y. Shoham and D. McDermott. Problems in Formal Temporal Reasoning. *Artificial Intelligence*, 36(1):49–61, August 1988.
- [Shoham, 1987] Y. Shoham. Temporal Logics in AI: Semantical and Ontological Considerations. *Artificial Intelligence*, 33:89–104, 1987.
- [Shoham, 1988] Y. Shoham. *Reasoning about Change: Time and Causation from the Standpoint of Artificial Intelligence*. MIT Press, 1988.
- [Shoham, 1993] Y. Shoham. Agent-Oriented Programming. *Artificial Intelligence*, 60(1):51–92, 1993.
- [Shostak, 1981] R. Shostak. Deciding Linear Inequalities by Computing Loop Residues. *Journal of the ACM*, 28(4):769–779, 1981.
- [Shults and Kuipers, 1997] B. Shults and B. Kuipers. Proving Properties of Continuous Systems: Qualitative Simulation and Temporal Logic. *Artificial Intelligence*, 92:91–129, 1997.
- [Singh, 1994] M. P. Singh. *Multiagent Systems: A Theoretical Framework for Intentions, Know-How, and Communications*, volume 799 of *Lecture Notes in Artificial Intelligence*. Springer-Verlag, 1994.
- [Sistla and Clarke, 1985] A. Sistla and E. Clarke. Complexity of Propositional Linear Temporal Logics. *Journal of the ACM*, 32:733–749, 1985.
- [Sistla *et al.*, 1987] A. Sistla, M. Vardi, and P. Wolper. The Complementation Problem for Buchi Automata with Applications to Temporal Logic. *Theoretical Computer Science*, 49:217–237, 1987.
- [Sistla *et al.*, 1997] A. P. Sistla, O. Wolfson, S. Chamberlain, and S. Dao. Modeling and Querying Moving Objects. In *Proceedings of IEEE International Conference on Data Engineering*, pages 422–432, 1997.
- [Skiadopoulos, 2002] Spiros Skiadopoulos. *Query Evaluation in Spatial Constraint Databases*. PhD thesis, Dept. of Electrical and Computer Engineering, National Technical University of Athens, 2002.

- [Skyt *et al.*, 2003] J. Skyt, C. S. Jensen, and L. Mark. A Foundation for Vacuuming Temporal Databases. *Data and Knowledge Engineering*, 44(1):1–29, 2003.
- [Smith and Weld, 1999] D. E. Smith and D. S. Weld. Temporal Planning with Mutual Exclusion Reasoning. In *Proceedings of the International Joint Conference on Artificial Intelligence (IJCAI)*, pages 326–337, 1999.
- [Smith, 1980] R. G. Smith. *A Framework for Distributed Problem Solving*. UMI Research Press, 1980.
- [Smullyan, 1968] R. Smullyan. *First-order Logic*. Springer, 1968.
- [Smyth *et al.*, 1997] P. Smyth, D. Heckerman, and M.I. Jordan. Probabilistic Independence Networks for Hidden Markov Models. *Neural Computation*, 9:227–269, 1997.
- [Snodgrass and Ahn, 1986] R. Snodgrass and I. Ahn. Temporal Databases. *IEEE Computer*, 19(9):35–42, 1986.
- [Snodgrass *et al.*, 1994] R. T. Snodgrass, I. Ahn, G. Ariav, D. Batory, J. Clifford, C. E. Dyreson, R. Elmasri, F. Grandi, C. S. Jensen, W. Kafer, N. Kline, K. Kulkarni, T. Y. C. Leung, N. Lorentzos, J. F. Roddick, A. Segev, M. D. Soo, and S. A. Sripada. TSQL2 Language Specification. *SIGMOD Record*, 23(1):65–86, March 1994.
- [Snodgrass *et al.*, 1995] R. T. Snodgrass, C. S. Jensen, and M. H. Böhlen. Evaluating and Enhancing the Completeness of TSQL2. Technical Report TR 95-5, Computer Science Department, University of Arizona, USA, 1995.
- [Snodgrass *et al.*, 1996] R. T. Snodgrass, M. H. Böhlen, C. S. Jensen, and A. Steiner. Adding Valid Time to SQL/Temporal. ISO/IEC JTC1/SC21/WG3 DBL MAD-146r2 21/11/96, (change proposal), International Organization for Standardization, 1996.
- [Snodgrass, 1987] R. T. Snodgrass. The Temporal Query Language TQuel. *ACM Transactions on Database Systems*, 12(2):247–298, June 1987.
- [Snodgrass, 1990] R. T. Snodgrass. Temporal Databases: Status and Research Direction. *SIGMOD RECORD*, 19:83–89, 1990.
- [Snodgrass, 1993] R. T. Snodgrass. An Overview of TQuel. In *Temporal Databases: Theory, Design, and Implementation*, chapter 6, pages 141–182. Benjamin/Cummings, 1993.
- [Snodgrass, 1995] R. T. Snodgrass, editor. *The TSQL2 Temporal Query Language*. Kluwer Academic Publishers, 1995.
- [Snodgrass, 1999] R. T. Snodgrass. *Developing Time-Oriented Database Applications in SQL*. Morgan Kaufmann, 1999.
- [Son *et al.*, 2001] T. Son, C. Baral, and S. McIlraith. Extending Answer Set Planning with Sequence, Conditionals, Loops, Non-Deterministic Choice and Procedural Constructs. In *Proceedings of the AAAI Spring symposium on Answer Set Programming*, 2001.
- [Song and Cohen, 1988] F. Song and R. Cohen. The Interpretation of Temporal Relations in a Narrative. In *Proceedings of the Seventh National Conference of the American Association for Artificial Intelligence (AAAI)*, pages 745–750. Morgan Kaufmann, 1988.
- [Song and Cohen, 1991] F. Song and R. Cohen. Tense Interpretation in the Context of Narrative. In *Proceedings of the Ninth National Conference of the American Association for Artificial Intelligence*, pages 131–136. MIT Press, 12–19 July 1991.
- [Song and Cohen, 1996] F. Song and R. Cohen. A Strengthened Algorithm for Temporal Reasoning about Plans. *Computational Intelligence*, 12(2):331–356, 1996.
- [Sontag, 1985] E. Sontag. Real Addition and the Polynomial Time Hierarchy. *Information Processing Letters*, 20:115–120, 1985.

- [Sripada *et al.*, 1994] S. Sripada, B. Rosser, J. Bedford, and R. Kowalski. Temporal Database Technology for Air Traffic Flow Management. In *Proceedings of First International Conference on Applications of Databases (ADB)*, volume 819 of *Lecture Notes in Computer Science*. Springer-Verlag, 1994.
- [Staab, 1998] S. Staab. On Non-Binary Temporal Relations. In *Proceedings of the European Conference on Artificial Intelligence (ECAI)*, pages 567–571, 1998.
- [Stillman *et al.*, 1993] J. Stillman, R. Arthur, and A. Deitsch. Tachyon: A Constraint-Based Temporal Reasoning Model and its Implementation. *SIGART Bulletin*, 4(3), 1993.
- [Stirling, 1992] C. Stirling. Modal and Temporal Logics. In D.M. Gabbay, S. Abramsky, and T.S.E. Maibaum, editors, *Handbook of Logic in Computer Science*, volume 2, pages 477–563. Clarendon Press, Oxford, 1992.
- [Stockmeyer, 1977] L.J. Stockmeyer. The Polynomial-Time Hierarchy. *Theoretical Computer Science*, 3:1–22, 1977.
- [Street, 1982] R. Street. Propositional Dynamic Logic of Looping and Converse. *Information and Control*, 54:121–141, 1982.
- [Streett and Emerson, 1984] R.S. Streett and E.A. Emerson. The Propositional μ -Calculus is Elementary. In J. Paredaens, editor, *Proceedings of the Eleventh International Colloquium on Automata, Languages, and Programming (ICALP)*, volume 172, pages 465–472. Springer-Verlag, Antwerp, Belgium, July 1984.
- [Stroetman, 1993] K. Stroetman. A Completeness Result for SLDNF-Resolution. *Journal of Logic Programming*, 15:337–355, 1993.
- [Sturm and Wolter, 2000] H. Sturm and F. Wolter. A Tableau Calculus for Temporal Description Logic: The Expanding Domain Case. *Journal of Logic and Computation*, 2000.
- [Subrahmanian and Zaniolo, 1995] V. Subrahmanian and C. Zaniolo. Relating Stable Models and AI Planning Domains. In L. Sterling, editor, *Proceedings of the International Conference on Logic Programming (ICLP)*, pages 233–247. MIT Press, 1995.
- [Sussman, 1990] G. J. Sussman. The Virtuous Nature of Bugs. In J. Allen, J. Hendler, and A. Tate, editors, *Readings in Planning*, chapter 3, pages 111–117. Morgan Kaufmann Publishers, Inc., 1990.
- [Swartout and Nebel, 1992] B. Swartout and B. Nebel, editors. *Proceedings of the Third International Conference on Principles of Knowledge Representation and Reasoning (KR)*, Cambridge, MA, USA, October 1992. Morgan Kaufmann.
- [Szalas, 1987] A. Szalas. A Complete Axiomatic Characterization of First-Order Temporal Logic of Linear Time. *Theoretical Computer Science*, 54:199–214, 1987.
- [Tang and Young, 2000] P. Tang and C. Young. ActiveGuidelines: Integrating Web-Based Guidelines with Computer-Based Patient Records. In M.J. Overhage, editor, *Proceedings of the AMIA Annual Symposium*, Los Angeles, USA, 2000. Hanley & Belfus.
- [Tansel *et al.*, 1993] A. Tansel, J. Clifford, S. Gadia, S. Jajodia, A. Segev, and R. T. Snodgrass, editors. *Temporal Databases: Theory, Design, and Implementation*. Benjamin/Cummings, 1993.
- [Tansel, 1993] A. Tansel. A Generalized Relational Framework for Modelling Temporal Data. In Tansel *et al.* [1993], pages 183–201.
- [Tarjan, 1972] R. Tarjan. Depth First Search and Linear Graph Algorithms. *SIAM Journal of Computing*, 1(2):215–225, 1972.
- [Tarski, 1941] A. Tarski. On the Calculus of Relations. *Journal of Symbolic Logic*, 6:73–89, 1941.
- [Tate, 1977] A. Tate. Generating project networks. In *Proceedings of IJCAI-77*, 1977.

- [ter Meulen and Smessaert, 2004] A. ter Meulen and H. Smessaert. Dynamic Temporal Reasoning with Aspectual Adverbs. To appear in *Linguistics and Philosophy*, 2004.
- [ter Meulen, 1990] A. ter Meulen. English Aspectual Verbs as Generalized Quantifiers. In J. Carter et al., editor, *NELS 20*, pages 378–390. GLSA, Department of Linguistics, University of Massachusetts, USA, 1990.
- [ter Meulen, 1995] A. ter Meulen. *Representing Time in Natural Language – The dynamic interpretation of tense and aspect*. Bradford Books, MIT Press, Cambridge (Mass.), 1995.
- [ter Meulen, 2000] A. ter Meulen. Chronoscopes: Dynamic Tools for Temporal Reasoning. In J. Higginbotham and F. Pianesi, editors, *Speaking of Events*, pages 151–168. Oxford University Press, Oxford, 2000.
- [ter Meulen, 2003] A. ter Meulen. Situated Reasoning in Time about Time. In B. Löwe et al., editor, *Foundations of the Formal Sciences II, Applications of Mathematical Logic in Philosophy and Linguistics*, volume 17 of *Trends in Logic*. Kluwer Academic Press, Dordrecht, 2003.
- [Terenziani, 1996] P. Terenziani. Toward an Ontology Dealing with Periodic Events. In W. Wahlster, editor, *Proceedings of the Fifteenth European Conference on Artificial Intelligence (ECAI)*, pages 43–47. John Wiley & Sons, 1996.
- [Thatcher and Wright, 1968] J. Thatcher and J. Wright. Generalized Finite Automata Theory with an Application to a Decision Problem of Second-Order Logic. *Mathematical Systems Theory*, 2(1):57–81, 1968.
- [The STREAM Group, 2003] The STREAM Group. STREAM: The Stanford Stream Data Manager (short overview paper). *IEEE Data Engineering Bulletin*, 26(1), 2003.
- [Thiébaux et al., 1996] S. Thiébaux, M.-O. Cordier, O. Jehl, and J.-P. Krivine. Supply restoration in Power Distribution Systems – A Case Study in Integrating Model-Based Diagnosis and Repair Planning. In *Proceedings of the Twelfth Conference on Uncertainty in Artificial Intelligence (UAI)*. Morgan Kaufmann, 1996.
- [Thielscher, 1997] M. Thielscher. Ramification and Causality. *Artificial Intelligence*, 89(1-2):317–364, 1997.
- [Thomas, 1990] W. Thomas. Automata on Infinite Objects. In J. van Leeuwen, editor, *Handbook of Theoretical Computer Science*, volume B. Elsevier, Amsterdam, 1990.
- [Thornton et al., 2002] J. Thornton, M. Beaumont, A. Sattar, and M. Maher. Applying Local Search to Temporal Reasoning. In *Proceedings of the Ninth International Symposium on Temporal Representation and Reasoning (TIME)*, Manchester, UK, 2002. IEEE Computer Society.
- [Thorthon et al., 2004] J. Thorthon, M. Beaumont, A. Sattar, and M. Maher. A Local Search Approach to Modelling and Solving Interval Algebra Problems. *Journal of Logic and Computation*, 14(1):93–112, 2004.
- [Tobies, 2000] S. Tobies. The Complexity of Reasoning with Cardinality Restrictions and Nominals in Expressive Description Logics. *Journal of Artificial Intelligence Research*, 12:199–217, 2000.
- [Toman and Chomicki, 1998] D. Toman and J. Chomicki. Datalog with Integer Periodicity Constraints. *Journal of Logic Programming*, 35(3):263–306, 1998.
- [Toman and Niwinski, 1996] D. Toman and D. Niwinski. First-Order Queries over Temporal Databases Inexpressible in Temporal Logic. In *International Conference on Extending Database Technology (EDBT)*, Avignon, France, 1996.
- [Toman, 1996] D. Toman. Point vs. Interval-based Query Languages for Temporal Databases. In *Proceedings of the ACM Symposium on Principles of Database Systems (PODS)*, Montréal, Canada, June 1996.

- [Toman, 1997] D. Toman. Point-based Temporal Extensions of SQL. In *International Conference on Deductive and Object-Oriented Databases*, 1997.
- [Toman, 2001] D. Toman. Expiration of Historical Databases. In *Proceedings of International Symposium on Temporal Representation and Reasoning (TIME)*, pages 128–135. IEEE Press, 2001.
- [Toman, 2003a] D. Toman. Logical Data Expiration. In Chomicki et al. [2003b], chapter 7, pages 203–238.
- [Toman, 2003b] D. Toman. Logical Data Expiration for Fixpoint Extensions of Temporal Logics. In *International Symposium on Advances in Spatial and Temporal Databases (SSTD)*, pages 380–393, 2003.
- [Toman, 2003c] D. Toman. On Incompleteness of Multi-dimensional First-order Temporal Logics. In *Proceedings of International Symposium on Temporal Representation and Reasoning and International Conference on Temporal Logic (TIME-ICTL)*, pages 99–106, 2003.
- [Topaloglou, 1996] T. Topaloglou. *On the Representation of Partial Spatial Information in Knowledge Bases*. PhD thesis, University of Toronto, Toronto, USA, 1996.
- [Trinquart and Ghallab, 2001] R. Trinquart and M. Ghallab. An Extended Functional Representation in Temporal Planning: Towards Continuous Change. In *Proceedings of European Conference on Planning (ECP)*, 2001.
- [Tsamardinos and Pollack, 2003] I. Tsamardinos and M.E. Pollack. Efficient Solution Techniques for Disjunctive Temporal Reasoning Problems. *Artificial Intelligence*, 151(1-2):43–90, 2003.
- [Tsang, 1986] E. P. K. Tsang. Plan Generation in a Temporal Frame. In *Proceedings of the Seventh European Conference on Artificial Intelligence (ECAI)*, pages 479–493, 1986.
- [Tsang, 1987a] E. P. K. Tsang. Time Structures for AI. In *Proceedings of the International Joint Conference on Artificial Intelligence (IJCAI)*, pages 456–461. Morgan Kaufmann, 1987.
- [Tsang, 1987b] E. P. K. Tsang. TLP- A Temporal Planner. In J. Hallam and C. Mellish, editors, *Advances in Artificial Intelligence*, pages 63–78. John Wiley&sons, 1987.
- [Tu et al., 1989] S.W. Tu, M.G. Kahn, M.A. Musen, J.C. Ferguson, E.H. Shortliffe, , and L. M. Fagan. Episodic Skeletal-Plan Refinement on Temporal Data. *Communications of the ACM*, 32:1439–1455, 1989.
- [Tu et al., 1995] S.W. Tu, H. Eriksson, J.H. Gennari, and M.A. Shahar, Y.and Musen. Ontology-Based Configuration of Problem-Solving Methods and Generation of Knowledge-Acquisition Tools: Application of PROTÉGÉ-II to Protocol-Based Decision Support. *Artificial Intelligence in Medicine*, 7(3):257–289, 1995.
- [Turner, 1994] H. Turner. Signed Logic Programs. In *Proceedings of the International Symposium on Logic Programming (ILPS)*, pages 61–75, 1994.
- [Turner, 1997] H. Turner. Representing Actions in Logic Programs and Default Theories. *Journal of Logic Programming*, 31(1-3):245–298, 1997.
- [Tuzhilin and Clifford, 1990] A. Tuzhilin and J. Clifford. A Temporal Relational Algebra as a Basis for Temporal Relational Completeness. In *International Conference on Very Large Data Bases (VLDB)*, 1990.
- [Ullman, 1989] J.D. Ullman. *Principles of Database and Knowledge-Base Systems*, volume 2. Computer Science Press, 1989.
- [Valdes et al., 1982] J. Valdes, R.E. Tarjan, and E.L. Lawler. The Recognition of Series Parallel Digraphs. *SIAM Journal of Computing*, 11(2):298–313, 1982.
- [van Beek and Cohen, 1990] P. van Beek and R. Cohen. Exact and Approximate Reasoning about Temporal Relations. *Computational Intelligence*, 6(3):132–144, 1990.

- [van Beek and Manchak, 1996] P. van Beek and D.W. Manchak. The Design and Experimental Analysis of Algorithms for Temporal Reasoning. *Journal of Artificial Intelligence Research*, 4:1–18, 1996.
- [van Beek, 1990] P. van Beek. Reasoning about Qualitative Temporal Information. In *Proceedings of the Eighth National Conference of the American Association for Artificial Intelligence (AAAI)*, pages 728–734, Boston, MA, 1990.
- [van Beek, 1991] P. van Beek. Temporal Query Processing with Indefinite Information. *Artificial Intelligence in Medicine*, 3:325–339, 1991.
- [van Beek, 1992] P. van Beek. Reasoning about Qualitative Temporal Information. *Artificial Intelligence*, 58(1-3):297–321, 1992.
- [Van Belleghem *et al.*, 1994] K. Van Belleghem, M. Denecker, and D. De Schreye. The Abductive Event Calculus as a General Framework for Temporal Databases. In *Proceedings of the First International Conference on Temporal Logic (ICTL)*, pages 301–316, 1994.
- [Van Belleghem *et al.*, 1995] K. Van Belleghem, M. Denecker, and D. De Schreye. Combining Situation Calculus and Event Calculus. In *Proceedings of the Twelfth International Conference on Logic Programming (ICLP)*, pages 83–97, 1995.
- [Van Bommel, 1996] J.H. Van Bommel. Medical Informatics, Art or Science? *Methods of Information in Medicine*, 35:157–117, 1996.
- [van Benthem, 1983] J.F.A.K. van Benthem. *The Logic of time*. D. Reidel Publishing Company, Dordrecht, 1983.
- [van Benthem, 1991] J.F.A.K. van Benthem. *The Logic of Time: A Model-Theoretic Investigation into the Varieties of Temporal Ontology and Temporal Discourse (second edition)*. (Synthese Library, Vol 156) Kluwer Academic Publishers, Dordrecht, 1991.
- [van der Meyden, 1992] R. van der Meyden. The Complexity of Querying Indefinite Data About Linearly Ordered Domains (Preliminary Version). In *Proceedings of the Eleventh ACM SIGACT-SIGMOD-SIGART Symposium on Principles of Database Systems (PODS)*, pages 331–345, 1992.
- [van Gelder *et al.*, 1991] A. van Gelder, K. Ross, and J. Schlipf. The Well-Founded Semantics for General Logic Programs. *Journal of the ACM*, 38(3):620–650, 1991.
- [van Linder *et al.*, 1996] B. van Linder, W. van der Hoek, and J. J. Ch. Meyer. How to Motivate Your Agents. In M. Wooldridge, J. P. Müller, and M. Tambe, editors, *Intelligent Agents II*, volume 1037 of *Lecture Notes in Artificial Intelligence*, pages 17–32. Springer-Verlag, 1996.
- [Vardi and Stockmeyer, 1985] M. Vardi and L. Stockmeyer. Improved Upper and Lower Bounds for Modal Logics of Programs. In *Proceedings of the Seventeenth ACM Symposium on the Theory of Computing (STOC)*, pages 240–251. ACM Press, 1985.
- [Vardi and Wolper, 1986] M.Y. Vardi and P. Wolper. An Automata-Theoretic Approach to Automatic Program Verification (Preliminary Report). In *Proceedings of the First IEEE Symposium on Logic in Computer Science (LICS)*, pages 332–344. IEEE Computer Society Press, Cambridge, USA, 1986.
- [Vardi and Wolper, 1994] M. Vardi and P. Wolper. Reasoning about Infinite Computations. *Information and Computation*, 115:1–37, 1994.
- [Vardi, 1982] M. Vardi. The Complexity of Relational Query Languages. In *Proceedings of the Fourteenth ACM Symposium on Theory of Computing (STOC)*, pages 137–145, 1982.
- [Vardi, 1988] M. Y. Vardi. A Temporal Fixpoint Calculus. In *Proceedings of the Fifteenth Annual ACM Symposium on Principles of Programming Languages (POPL)*, pages 250–259, San Diego, USA, 1988.

- [Vardi, 1994] M. Vardi. Nontraditional Applications of Automata Theory. In *Proceedings of International Symposium on the Theoretical Aspects of Computer Software (STACS)*, volume 789 of LNCS, pages 575–597. Springer-Verlag, 1994.
- [Vardi, 1996] M. Vardi. An Automata-Theoretic Approach to Linear Temporal Logic. In F. Moller and G. Birtwistle, editors, *Logics for Concurrency*, pages 238–266. Springer Verlag, 1996.
- [Vazirgiannis and Wolfson, 2001] M. Vazirgiannis and O. Wolfson. A Spatiotemporal Model and Language for Moving Objects on Road Networks. In *Proceedings of the International Symposium on Advances in Spatial and Temporal Databases (SSTD)*, pages 20–35, 2001.
- [Veloso *et al.*, 1990] M. Veloso, A. Pérez, and J. Carbonell. Non-Linear Planning with Parallel Resource Allocation. In *Proceedings of the DARPA Workshop on Innovative Approaches to Planning, Scheduling and Control*, pages 207–212, 1990.
- [Veloso *et al.*, 1995] M. Veloso, J. Carbonell, A. Pérez, D. Borrajo, E. Fink, and J. Blythe. Integrated Planning and Learning: the PRODIGY Architecture. *Journal of Experimental and Theoretical AI*, 7(1), 1995.
- [Vendler, 1967] Z. Vendler. *Linguistics and Philosophy*. Cornell University Press, Ithaca, USA, 1967.
- [Venema, 1991a] Y. Venema. A Modal Logic for Chopping Intervals. *Journal of Logic and Computation*, 1(4):453–476, 1991.
- [Venema, 1991b] Y. Venema. Completeness via Completeness. In M. de Rijke, editor, *Colloquium on Modal Logic, 1991*. ITLI-Network Publication, Instit. for Lang., Logic and Information, University of Amsterdam, Netherlands, 1991.
- [Venkatesh, 1986] G. Venkatesh. A Decision Method for Temporal Logic based on Resolution. *Lecture Notes in Computer Science*, 206:272–289, 1986.
- [Vere, 1983] S. Vere. Planning in time: Windows and durations for activities and goals. *IEEE Trans. on Pattern Analysis and Machine Intelligence*, 5, 1983.
- [Vidal and Ghallab, 1996] T. Vidal and M. Ghallab. Constraint-Based Temporal Management in Planning: the IxTeT way. In *Proceedings of the Twelfth European Conference on Artificial Intelligence (ECAI)*, 1996.
- [Vila and Reichgelt, 1996] L. Vila and H. Reichgelt. The Token Reification Approach to Temporal Reasoning. *Artificial Intelligence*, 83(1):59–74, May 1996.
- [Vila and Schwalb, 1996] L. Vila and E. Schwalb. A Theory of Time and Temporal Incidence based on Instants and Periods. In *Proceedings of the International Workshop on Temporal Representation and Reasoning (TIME)*, pages 21–28. IEEE Computer Society Press, 1996.
- [Vila and Yoshino, 1996] L. Vila and H. Yoshino. Time in Automated Legal Reasoning (the long report). Technical Report 96-57, UC Irvine, California, USA, 1996.
- [Vila, 1994] L. Vila. *IP: An Instant-Period-based Theory of Time*. In R. Rodriguez, editor, *Proceedings of the ECAI'94 Workshop on Spatial and Temporal Reasoning*, 1994.
- [Vilain and Kautz, 1986] M. Vilain and H. Kautz. Constraint Propagation Algorithms for Temporal Reasoning. In *Proceedings of the Fifth (US) National Conference on Artificial Intelligence (AAAI)*, pages 377–382, 1986.
- [Vilain *et al.*, 1990] M. Vilain, H.A. Kautz, and P. van Beek. Constraint Propagation Algorithms for Temporal Reasoning: A Revised Report. In D. S Weld and J. de Kleer, editors, *Readings in Qualitative Reasoning about Physical Systems*, pages 373–381, San Mateo, USA, 1990. Morgan Kaufmann.
- [Vilain, 1982] M. Vilain. A System for Reasoning About Time. In *Proceedings of the 2nd (US) National Conference on Artificial Intelligence (AAAI '82)*, pages 197–201, Pittsburgh, PA, USA, August 1982. American Association for Artificial Intelligence.

- [Visser *et al.*, 2000] W. Visser, K. Havelund, G. Brat, and S. Park. Model Checking Programs. In *Proceedings of International Conference on Automated Software Engineering (ASE)*, September 2000.
- [von Wright, 1965] G. H. von Wright. And Next. *Acta Philosophica Fennica*, 18:293–304, 1965.
- [Wainer and de Melo Rezende, 1997] J. Wainer and A. de Melo Rezende. A Temporal Extension to the Parsimonious Covering Theory. *Artificial Intelligence in Medicine*, 10:235–255, 1997.
- [Wainer and Sandri, 1999] J. Wainer and S. Sandri. Fuzzy Temporal/Categorical Information in Diagnosis. *Journal of Intelligent Information Systems*, 13:9–26, 1999.
- [Walker, 1948] A.G. Walker. Durées et Instants. *Revue Scientifique*, 85:131–134, 1948.
- [Walther, 1987] C. Walther. *A Many Sorted Calculus Based on Resolution and Paramodulation*. Pitman, 1987.
- [Wang *et al.*, 1995] X. S. Wang, S. Jajodia, and V. Subrahmanian. Temporal Modules: An Approach Toward Federated Temporal Databases. *Information sciences*, 82:103–128, 1995.
- [Wang *et al.*, 1997] X. S. Wang, C. Bettini, A. Brodsky, and S. Jajodia. Logical Design for Temporal Databases with Multiple Granularities. *ACM Transactions on Database Systems*, 22(2):115–170, 1997.
- [Webber, 1995] A. B. Webber. Proof of the Interval Satisfiability Conjecture. *Annals of Mathematics and Artificial Intelligence*, 15, 1995.
- [Weida and Litman, 1992] R. Weida and D. Litman. Terminological Reasoning with Constraint Networks and an Application to Plan Recognition. In B. Nebel, W. Swartout, and C. Rich, editors, *Proceedings of the Third International Conference on Principles of Knowledge Representation and Reasoning (KR)*, pages 282–293. Morgan Kaufmann, 1992.
- [Weld *et al.*, 1998] D. S. Weld, C. R. Anderson, and D. E. Smith. Extending Graphplan to Handle Uncertainty and Sensing Actions. In *Proceedings of AAAI*, pages 897–904, 1998.
- [Weld, 1994] D. S. Weld. An Introduction to Least Commitment Planning. *AI Magazine*, 15(61):27–61, Winter 1994.
- [Wetprasit and Sattar, 1998] R. Wetprasit and A. Sattar. Temporal Reasoning with Qualitative and Quantitative Information About Points and Durations. In *Proceedings of the Fifteenth National Conference on Artificial Intelligence (AAAI)*, pages 656–663, Madison, USA, July 1998.
- [Wetprasit *et al.*, 1996] R. Wetprasit, A. Sattar, and L. Khatib. Reasoning with Sequences of Events (an extended abstract). In *Proceedings of the International Workshop on Temporal Representation and Reasoning (TIME)*, pages 36–38. IEEE Computer Society Press, 1996.
- [Whitehead, 1919] A.N. Whitehead. *An Enquiry Concerning the Principles of Natural Knowledge*. Cambridge, 1919.
- [Widom and Ceri, 1996] J. Widom and S. Ceri, editors. *Active Database Systems: Triggers and Rules for Advanced Database Processing*. Morgan Kaufmann, 1996.
- [Wiederhold and Genesereth, 1997] G. Wiederhold and M. Genesereth. The Conceptual Basis of Mediation Services. *IEEE Expert*, 12(5):38–47, 1997.
- [Wiederhold, 1992] G. Wiederhold. Mediators in the Architecture of Future Information Systems. *IEEE Computer*, 25(3):38–50, 1992.
- [Wijsen, 1998] J. Wijsen. Reasoning about Qualitative Trends in Databases. *Information Systems*, 23(7):463–487, 1998.
- [Wijsen, 1999] J. Wijsen. Temporal FDs on Complex Objects. *ACM Transactions on Database Systems*, 24(1):127–176, 1999.

- [Wijsen, 2000] J. Wijsen. A String-based Model for Infinite Granularities. In C. Bettini and A. Montanari, editors, *Proceedings of the AAI Workshop on Spatial and Temporal Granularities*, pages 9–16. AAAI Press, 2000.
- [Wilkins, 1988] D.E. Wilkins. *Practical Planning: Extending the Classical AI Planning Paradigm*. Morgan Kaufmann Publishers Inc., San Francisco, CA, 1988.
- [Williams, 1986] B. C. Williams. Doing Time: Putting Qualitative Reasoning on Firmer Ground. In *Proceedings of AAAI*, pages 105–112. AAAI press, 1986.
- [Wolper, 1983] P. Wolper. Temporal Logic can be More Expressive. *Information and Computation*, 56(1–2):72–99, 1983.
- [Wolper, 1985] P. Wolper. The Tableau Method for Temporal Logic: An Overview. *Logique et Analyse*, June–Sept 1985.
- [Wolper, 1989] P. Wolper. On the Relation of Programs and Computations to Models of Temporal Logic. In B. Banieqbal, B. Barringer, and A. Pnueli, editors, *Temporal Logic in Specification*, pages 75–123. Springer-Verlag, LNCS 398, 1989.
- [Wolter and Zakharyashev, 1998a] F. Wolter and M. Zakharyashev. Satisfiability Problem in Description Logics with Modal Operators. In A. G. Cohn, L. Schubert, and S. C. Shapiro, editors, *Proceedings of International Conference on Principles of Knowledge Representation and Reasoning (KR)*, pages 512–523. Morgan Kaufmann, San Francisco, California, 1998.
- [Wolter and Zakharyashev, 1998b] F. Wolter and M. Zakharyashev. Temporalizing Description Logics. See citeseer.ist.psu.edu/wolter98temporalizing.html, 1998.
- [Wolter and Zakharyashev, 1999] F. Wolter and M. Zakharyashev. Modal Description Logics: Modalizing Roles. *Fundamenta Informaticae*, 39(4):411–438, 1999.
- [Wolter, 2000] F. Wolter. The Product of Converse PDL and Polymodal K. *Journal of Logic and Computation*, 10(2):223–251, 2000.
- [Wooldridge and Jennings, 1995] M. Wooldridge and N. R. Jennings. Intelligent Agents: Theory and Practice. *The Knowledge Engineering Review*, 10(2):115–152, 1995.
- [Wooldridge et al., 2002] M. Wooldridge, M. Fisher, M.-P. Huget, and S. Parsons. Model checking multiagent systems with MABLE. In *Proceedings of the First International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS)*, pages 952–959, Bologna, Italy, 2002.
- [Wooldridge., 1992] M. J. Wooldridge. *The Logical Modelling of Computational Multi-Agent Systems*. PhD thesis, Department of Computation, UMIST, Manchester, UK, 1992.
- [Wooldridge, 1996] M. J. Wooldridge. A Knowledge-Theoretic Semantics for Concurrent MetateM. In J. P. Müller, M. J. Wooldridge, and N. R. Jennings, editors, *Intelligent Agents III — Proceedings of the Third International Workshop on Agent Theories, Architectures, and Languages (ATAL)*, Lecture Notes in Artificial Intelligence. Springer-Verlag, Heidelberg, 1996.
- [Wooldridge, 2000] M. Wooldridge. *Reasoning about Rational Agents*. MIT Press, 2000.
- [Wooldridge, 2002] M. Wooldridge. *An Introduction to Multiagent Systems*. John Wiley & Sons, 2002.
- [Yampratoom and Allen, 1993] E. Yampratoom and J. Allen. Performance of Temporal Reasoning Systems. *SIGART Bulletin*, 4(3):26–29, 1993.
- [Yang et al., 2000] J. Yang, H. C. Ying, and J. Widom. TIP: A Temporal Extension to Informix. In *Proceedings of the ACM SIGMOD International Conference on Management of Data*, page 596, 2000.
- [Yang, 1997] Q. Yang. *Intelligent Planning*. Springer-Verlag, Berlin, Heidelberg, New York, 1997.

- [Yi *et al.*, 1997] W. Yi, K.G. Larsen, and P. Pettersson. Uppaal in a Nutshell. *International Journal of Software Tools for Technology Transfer*, 1(1), 1997.
- [Yoshino, 1994a] H. Yoshino. Representation of Legal Knowledge by Compound Predicate Formula. In D. Tiscornia C. Biagioli, G. Sartor, editor, *Proceedings of the ICLP Workshop on Legal Application of Logic Programming*, pages 128–137. MIT press, 1994.
- [Yoshino, 1994b] H. Yoshino. Representation of Legal Knowledge by Legal Flowchart and Compound Predicate Formula. Technical Report TM-1298, ICOT, 1994.
- [Younes and Simmons, 2003] H.L.S. Younes and R.G. Simmons. VHPOP: Versatile Heuristic Partial Order Planner. *Journal of AI Research*, (Special issue on 3rd International Planning Competition), 2003.
- [Zeman, 1973] J. Zeman. *Modal logic: The Lewis Modal Systems*. Oxford University Press, 1973.
- [Zhang *et al.*, 2002] D. Zhang, V. J. Tsotras, and B. Seeger. Efficient Temporal Join Processing using Indices. In *Proceedings of IEEE International Conference on Data Engineering*, pages 103–114, 2002.
- [Zilberstein, 1996] S. Zilberstein. Using anytime algorithms in intelligent systems. *AI magazine*, 17(3):73–83, 1996.