

## 7. Bibliography

- [AASPH06] E. Albert, P. Arenas-Sánchez, G. Puebla, and M.V. Hermenegildo. Reduced certificates for abstraction-carrying code. In S. Etalle and M. Truszczynski, editors, *Twentysecon International Conference on Logic Programming, ICLP '06*, volume 4079 of *Lecture Notes in Computer Science*, pages 163–178, Seattle, Washington, United States, 17–20 August 2006.
- [Abr86] S. Abramsky. Strictness analysis and polymorphic invariance (extended abstract). In H. Ganzinger and N.D. Jones, editors, *Programs as Data Objects, Proceedings of a Workshop*, Copenhagen, Denmark, 17–19 October 1985, Lecture Notes in Computer Science 217, pages 1–23. Springer, Berlin, Germany, 1986.
- [ACH<sup>+</sup>95] R. Alur, C. Courcoubetis, N. Halbwachs, T. Henzinger, P. Ho, X. Nicollin, A. Olivero, J. Sifakis, and S. Yovine. The algorithmic analysis of hybrid systems. *Theoretical Computer Science B*, 138:3–34, January 1995.
- [ACMW96] M. Alt, Ferdinand C., F. Martin, and R. Wilhelm. Cache behavior prediction by abstract interpretation. In R. Cousot and D.A. Schmidt, editors, *Proceedings of the Third International Symposium on Static Analysis, SAS '96*, Aachen, Germany, 24–26 september 1996, Lecture Notes in Computer Science 1145, pages 52–66. Springer, Berlin, Germany, 1996.
- [ACSE99] J. Aldrich, C. Chambers, E.M. Sizer, and S. Eggers. Static analyzes for eliminating unnecessary synchronization from Java programs. In A. Cortesi and G. Filé, editors, *Proceedings of the Sixth International Symposium on Static Analysis, SAS '99*, Venice, Italy, 22–24 september 1999, Lecture Notes in Computer Science 1694, pages 18–38. Springer, Berlin, Germany, 1999.
- [ADI02] R. Alur, T. Dang, and F. Ivancic. Reachability analysis of hybrid systems via predicate abstraction. In C. Tomlin and M.R. Greenstreet, editors, *Proceedings of the Fifth International Workshop on Hybrid Systems: Computation and Control, HSCC '2002*, pages 35–48, Stanford, California, United States, Lecture Notes in Computer Science 2289, 25–27 March 2002. Springer, Berlin, Germany.
- [ADI03] R. Alur, T. Dang, and F. Ivancic. Reachability analysis of hybrid systems using counter-example guided predicate abstraction. In H. Garavel and J. Hatcliff, editors, *Proceedings of the Ninth International Conference on Tools and Algorithms for the Construction and Analysis of Systems, TACAS '2003*, pages ???–???, Warsaw, Poland, United States, Lecture Notes in Computer Science ????, 7–11 April 2003. Springer, Berlin, Germany.
- [AGM92] G. Amato, . Giannotti, and G. Mainetto. Analysis of concurrent transactions in a functional database programming language. In M. Billaud, P. Castérán, M.-M. Corsini, K. Musumbu, and A. Rauzy, editors, *Proceedings of the Second International Workshop on Static Analysis, WSA '92, Bordeaux, France. BIGRE*, volume 81–82, pages 174–184. IRISA, Rennes, France, 23–25 september 1992.
- [AGM93a] G. Amato, F. Giannotti, and G. Mainetto. Data sharing analysis for a database programming language via abstract interpretation. In R. Agrawal, S. Baker, and D.A.Bell, editors, *Proceedings of the Nineteenth International Conference on Very Large Data Bases*, pages 405–415, Dublin, Ireland, 24–27 August 1993. MORGANKAUFMANN.

- [AGM93b] G. Amato, F. Giannotti, and G. Mainetto. Data sharing analysis for a database programming language via abstract interpretation. In R. Agrawal, S. Baker, and D.A. Bell, editors, *Proceedings of the Nineteenth International Conference on Very Large Data Bases, VLDB '93*, Dublin, Ireland, pages 405–415. Morgan Kaufmann Pub. Inc., Los Altos, California, United States, 24–27 August 1993.
- [AGM93c] G. Amato, F. Giannotti, and G. Mainetto. Static analysis of transactions: an experiment of abstract interpretation usage. In A. Heuer and M.H. Scholl, editors, *Proceedings of the Fifth Workshop on Foundations of Models and Languages for Data and Objects, FMLDO '93*, pages 19–29, Aigen, Austria, 20–24 september 1993. Informatik-Berichte des IfI 93/9, Technische Universität Clausthal, Germany.
- [AGM93d] G. Amato, F. Giannotti, and G. Mainetto. Static analysis of transactions: an experiment of abstract interpretation usage. In A. Heuer and M.H. Scholl, editors, *Proceedings of the Fifth Workshop on Foundations of Models and Languages for Data and Objects, FMLDO '99*, Aigen, Austria, 20–24 september 1993, Informatik-Berichte des IfI 93/9, pages 19–29. Technische Universität Clausthal, Germany, 1993.
- [AGM94] G. Amato, F. Giannotti, and G. Mainetto. Conservative multigranularity locking for an object-oriented persistent language via abstract interpretation. In S. Bergamaschi, C. Sartori, and P. Tiberio, editors, *Atti del Secondo Convegno Nazionale "Sistemi Evoluti per Basi di Dati", SEBD 94*, Rimini, Italy, 6–8 June 1994, pages 329–349. Editrice Esculapio Progetto Leonardo, via U. Terracini, 30, 40131 Bologna, Italy, 6–8 June 1994.
- [AH87a] S. Abramsky and C. Hankin, editors. *Abstract Interpretation of Declarative Languages*. Computers and their Applications. Ellis Horwood, Chichester, United Kingdom, 1987.
- [AH87b] S. Abramsky and C. Hankin. *An introduction to abstract interpretation*, chapter 1. Ellis Horwood, Chichester, United Kingdom, 1987.
- [AJ91] S. Abramsky and T.P. Jensen. A relational approach to strictness analysis for higher-order polymorphic functions. In *Conference Record of the Eighteenth Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages*, pages 49–54, Orlando, Florida, 1991. ACM Press, New York, New York, United States.
- [AK97] F. Benoy A. King, . Shen. Lower-bound time-complexity analysis of logic programs. In J. Małuszyński, editor, *Proceedings of the International Symposium on Logic Programming, ILPS '1997*, Port Jefferson, Long Island, New York, United States, pages 261–275. MIT Press, Cambridge, Massachusetts, United States, 13–16 October 1997.
- [APH04a] E. Albert, G. Puebla, and M.V. Hermenegildo. Abstract interpretation-based mobile code certification. In B. Demoen and V. Lifschitz, editors, *Twentieth International Conference on Logic Programming, ICLP '04*, volume 3132 of *Lecture Notes in Computer Science*, pages 446–447, Saint-Malo, France, 6–10 september 2004.

- [APH04b] E. Albert, G. Puebla, and M.V. Hermenegildo. Experiments in abstract interpretation-based code certification for pervasive systems. In *Proceedings of the IEEE International Conference on Systems, Man & Cybernetics, SMC '2004*, volume 2, pages 1125–1130, The Hague, The Netherlands, 10–13 October 2004. IEEE Computer Society Press, Los Alamitos, California, United States.
- [APH05a] E. Albert, G. Puebla, and M.V. Hermenegildo. An abstract interpretation-based approach to mobile code safety. *Electronic Notes in Theoretical Computer Science*, 132(1):113–129, 2005.
- [APH05b] E. Albert, G. Puebla, and M.V. Hermenegildo. Abstraction-carrying code. In F. Baader and A. Voronkov, editors, *Proceedings of the Eleventh International Conference on Logic Programming and Automated Reasoning, LPAR '04*, pages 380–397, Montevideo, Uruguay, Lecture Notes in Computer Science 3452, 14–18 March 2005. Springer, Berlin, Germany.
- [AS01] G. Amato and F. Spoto. Abstract compilation for sharing analysis. In H. Kuchen and K. Ueda, editors, *Proceedings of the FLOPS 2001 Conference*, volume 2024 of *Lecture Notes in Computer Science*, pages 311–325, Tokyo, Japan, March 2001. Springer, Berlin, Germany.
- [Asa99] K. Asai. Binding-time analysis for both static and dynamic expressions. In A. Cortesi and G. Filé, editors, *Proceedings of the Sixth International Symposium on Static Analysis, SAS '99*, Venice, Italy, 22–24 september 1999, Lecture Notes in Computer Science 1694, pages 117–133. Springer, Berlin, Germany, 1999.
- [Bag96] R. Bagnara. A reactive implementation of Pos using ROBDDs. In H. Kuchen and D.S. Swierstra, editors, *Proceedings of the Eight International Symposium on Programming Language Implementation and Logic Programming, PLILP '96*, pages 107–121. Springer, Berlin, Germany, Aachen, Germany, 24–27 september 1996, Lecture Notes in Computer Science 1140, 1996.
- [BB93] M. Bruynooghe and D. Boulanger. Abstract interpretation for (constraint) logic programming. Report CW 183, Department of Computer Science, Katholieke Universiteit Leuven, Leuven, Belgium, November 1993.
- [BB94] D. Boulanger and M. Bruynooghe. A systematic construction of abstract domains. In B. Le Charlier, editor, *Proceedings of the First International Symposium on Static Analysis, SAS '94*, Namur, Belgium, 20–22 september 1994, Lecture Notes in Computer Science 864, pages 61–77. Springer, Berlin, Germany, 1994.
- [BBC<sup>+</sup>06] T. Ball, E. Bounimova, . Cook, V. Levin, Jakob Lichtenberg, C. McGarvey, Bohus Ondrusek, Sriram K. Rajamani, and Abdullah Ustuner. Thorough static analysis of device drivers. In Y. Berbers and W. Zwaenepoel, editors, *Proceedings of the 2006 EuroSys Conference , Leuven, Belgium*, pages 73–85. ACM Press, New York, New York, United States, 18–21 April 2006.
- [BD94] D. Boulanger, M. Bruynooghe, and M. Denecker. Abstracting S-semantics using a model-theoretic approach. In M.V. Hermenegildo and J. Penjam, editors, *Proceedings of the Sixth International Symposium on Programming Language Implementation and Logic Programming, PLILP '94*, Madrid, Spain, 14–16 september 1994, Lecture Notes in Computer Science 844, pages 432–446. Springer, Berlin, Germany, 1994.

- [BBF02] R. Barbuti, C. Bernardeschi, and N. De Francesco. Abstract interpretation of operational semantics for secure information flow. *Information Processing Letters*, 83(2):101–108, 2002.
- [BC91] P. De Boeck and B. Le Charlier. Automatic construction of Prolog primitives for type checking analysis. *Actes JTASPEFL '91, Bordeaux, France. BIGRE*, 74:165–172, October 1991.
- [BC93] M. Bruynooghe and M. Codish. Freeness, sharing, linearity and correctness — all at once. In P. Cousot, M. Falaschi, G. Filé, and A. Rauzy, editors, *Proceedings of the Third International Workshop on Static Analysis, WSA '93*, Padova, Italy, Lecture Notes in Computer Science 724, pages 153–164. Springer, Berlin, Germany, 22–24 september 1993.
- [BC05] R. Barbuti and S. Cataudella. Abstract interpretation of an object calculus for synchronization optimizations. *Fundamenta Informaticæ*, 67(1–3):1–12, 2005.
- [BCC<sup>+</sup>02] B. Blanchet, P. Cousot, R. Cousot, J. Feret, L. Mauborgne, A. Miné, D. Monniaux, and X. Rival. Design and implementation of a special-purpose static program analyzer for safety-critical real-time embedded software, invited chapter. In T. Mogensen, D.A. Schmidt, and I.H. Sudborough, editors, *The Essence of Computation: Complexity, Analysis, Transformation. Essays Dedicated to Neil D. Jones*, Lecture Notes in Computer Science 2566, pages 85–108. Springer, Berlin, Germany, 2002.
- [BCC<sup>+</sup>03] B. Blanchet, P. Cousot, R. Cousot, J. Feret, L. Mauborgne, A. Miné, D. Monniaux, and X. Rival. A static analyzer for large safety-critical software. In *Proceedings of the ACM SIGPLAN'2003 Conference on Programming Language Design and Implementation (PLDI)*, pages 196–207, San Diego, California, United States, 7–14 June 2003. ACM Press, New York, New York, United States.
- [BCFP99] D. Baldan, N. Civran, G. Filé, and F. Pulvirenti. A simple and general method for integrating abstract interpretation in SICStus. In G. Nadathur, editor, *Proceedings of the International Conference Principles and Practice of Declarative Programming, PPDP '99*, Paris, France, 29 september – 1 October 1999, Lecture Notes in Computer Science 1702, pages 207–223. Springer, Berlin, Germany, 1999.
- [BCGL91] R. Barbuti, M. Codish, R. Giacobazzi, and G. Levi. Modelling Prolog control. *Actes JTASPEFL '91, Bordeaux, France. BIGRE*, 74:117–124, October 1991.
- [BCGL92] R. Barbuti, M. Codish, R. Giacobazzi, and G. Levi. Modeling Prolog control. In *Conference Record of the Ninethteenth Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages*, pages 95–104, Albuquerque, , New Mexico, 1992. ACM Press, New York, New York, United States.
- [BCGL93] R. Barbuti, M. Codish, R. Giacobazzi, and G. Levi. Modeling Prolog control. *Journal of Logic and Computation*, 3(6):579–603, 1993.
- [BCHP96] F. Bueno, D. Cabeza, M. Hermenegildo, and G. Puebla. Global analysis of standard Prolog programs. In H. Riis Nielson, editor, *Proceedings of the Sixth European Symposium on Programming Languages and Systems, ESOP '96*, Linköping, Sweden, Lecture Notes in Computer Science 1058, pages 108–124. Springer, Berlin, Germany, 22–26 April 1996.

- [BCM94] M. Bruynooghe, M. Codish, and A. Mulkers. Abstract unification for a composite domain deriving sharing and freeness properties of program variables. In *International Conference on Logic Programming, ICLP '94 post-Conference Workshop on the verification and analysis of logic programs*, pages 213–230, Santa Margherita Ligure, Italy, June 1994.
- [BCM95] M. Bruynooghe, M. Codish, and A. Mulkers. Abstracting unification: A key step in the design of logic program analyses. In *Computer Science Today*, volume 1000 of *Lecture Notes in Computer Science*, pages 406–425. Springer, Berlin, Germany, 1995.
- [BCT04] R. Barbuti, S. Cataudella, and L. Tesei. Abstract interpretation against races. *Fundam. Inform.*, 60(1–4):67–79, 2004.
- [BDB<sup>+</sup>96] M. Bruynooghe, B. Demoen, D. Boulanger, M. Denecker, and A. Mulkers. A freeness and sharing analysis of logic programs based on a pre-interpretation. In R. Cousot and D.A. Schmidt, editors, *Proceedings of the Third International Symposium on Static Analysis, SAS '96*, Aachen, Germany, 24–26 september 1996, Lecture Notes in Computer Science 1145, pages 128–142. Springer, Berlin, Germany, 1996.
- [BDD<sup>+</sup>97] F. Bueno, P. Deransart, W. Drabent, G. Ferrand, M.V. Hermenegildo, J. Maluszynski, and G. Puebla. On the role of semantic approximations on validation and diagnosis of constraint logic programs. In M. Kamkar, editor, *Proceedings of the Third International Workshop on Automatic Debugging AADEBUG '97, Linköping, Sweden, 26-27 May 1997*, Linköping Electronic Articles in Computer and Information Science 2(009), pages 155–169, 1997.
- [BdlB04] F. Bueno and M.J. García de la Banda. Set-sharing is not always redundant for pair-sharing. In Y. Kameyama and P.J. Stuckey, editors, *Seventh Fuji International Symposium on Functional and Logic Programming, FLOPS '04*, Nara, Japan, 7–9 April 2004, Lecture Notes in Computer Science 2998, pages 117–131. Springer, Berlin, Germany, 2004.
- [BdlBH99a] F. Bueno, M.J. García de la Banda, and M.V. Hermenegildo. Effectiveness of abstract interpretation in automatic parallelization: A case study in logic programming. *ACM Transactions on Programming Languages and Systems*, 21(2):189–239, March 1999.
- [BdlBH99b] F. Bueno, M.J. García de la Banda, and M.V. Hermenegildo. Effectivness of abstract interpretation in automatic parallelization: A case study in logic programming. *ACM Transactions on Programming Languages and Systems*, 21(2):189–239, 1999.
- [BDP98] C. Bodei, P. Degano, and C. Priami. Constructing specific SOS semantics for concurrency via abstract interpretation. In G. Levi, editor, *Proceedings of the Fifth International Symposium on Static Analysis, SAS '98*, Pisa, Italy, 14–16 september 1998, Lecture Notes in Computer Science 1503, pages 168–183. Springer, Berlin, Germany, 1998.
- [Ben93] P.N. Benton. Strictness properties of lazy algebraic datatypes. In P. Cousot, M. Falaschi, G. Filé, and A. Rauzy, editors, *Proceedings of the Third International Workshop on Static Analysis, WSA '93*, Padova, Italy, Lecture Notes in Computer Science 724, pages 194–205. Springer, Berlin, Germany, september 22–24, 1993.
- [Ber05] J. Bertrane. Static analysis by abstract interpretation of the quasi-synchronous composition of synchronous programs. In R. Cousot, editor, *Proceedings of the Sixth International Conference on Verification, Model Checking and Abstract Interpretation (VMCAI 2005)*, pages 97–112, Paris, France, 17–19 January 2005. Lecture Notes in Computer Science 3385, Springer, Berlin, Germany.

- [Ber06a] J. Bertrane. Proving the properties of communicating imperfectly-clocked synchronous systems. In Kwangkeun Yi, editor, *Proceedings of the Thirteenth International Symposium on Static Analysis, SAS '06*, volume 4134 of *Lecture Notes in Computer Science*, pages 370–386, Seoul, Korea, 29–31 August 2006. Springer, Berlin, Germany.
- [Ber06b] J. Bertrane. Static analysis by abstract interpretation of communicating imperfectly-clocked synchronous programs. In *SYN-CHRON06, International Open Workshop on Synchronous Programming, IMAG & INRIA*, Alpe d’Huez, France, 29 November 2006.
- [BET03] A. Bouadjani, J. Esparza, and T. Touili. A generic approach to the static analysis of concurrent programs with procedures. In *Conference Record of the Thirteenth Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages*, pages 62–73, New Orleans, Louisiana, United States, 15–17 January 2003. ACM Press, New York, New York, United States.
- [BF97] D. Baldan and G. Filé. Abstract interpretation for improving WAM code. In P. Van Hentenryck, editor, *Proceedings of the Fourth International Symposium on Static Analysis, SAS '97*, Paris, France, 8–10 september 1997, Lecture Notes in Computer Science 1302, page 364. Springer, Berlin, Germany, 1997.
- [BFSV99a] R. Barbuti, N. De Francesco, A. Santone, and G. Vaglini. Abstract interpretation of trace semantics for concurrent calculi. *Information Processing Letters*, 70(2):69–78, 1999.
- [BFSV99b] R. Barbuti, N. De Francesco, A. Santone, and G. Vaglini. Abstract interpretation of trace semantics for concurrent calculi. *Information Processing Letters*, 70(2):69–78, February 1999.
- [BGdlBH94] F. Bueno, M.J. García de la Banda, and M.V. Hermenegildo. Effectiveness of global analysis in strict independence-based automatic parallelization. In M. Bruynooghe, editor, *Proceedings of the International Symposium on Logic Programming, ILPS '1994*, Ithaca, New York, United States, pages 320–336. MIT Press, Cambridge, Massachusetts, United States, 13–17 November 1994.
- [BGL89] R. Barbuti, R. Giacobazzi, and G. Levi. A December larative abstract semantics for logic programs. In A. Bertoni, C. Böhm, and P. Miglioli, editors, *Proceedings of the Third Italian Conference on Theoretical Computer Science*, pages 85–96. World Scientific Pub., Mantova, Italy, 2–4 November 1989.
- [BGL92a] R. Bagnara, R. Giacobazzi, and G. Levi. Static analysis of CLP programs over numeric domains. In M. Billaud, P. Castérán, M.-M. Corsini, K. Musumbu, and A. Rauzy, editors, *Proceedings of the Second International Workshop on Static Analysis, WSA '92, Bordeaux, France. BIGRE*, volume 81–82, pages 43–50. IRISA, Rennes, France, 23–25 september 1992.
- [BGL92b] R. Barbuti, R. Giacobazzi, and G. Levi. A bottom-up polymorphic type inference in logic programming. *Science of Computer Programming*, 19(3):281–313, December 1992.
- [BGL93a] R. Barbuti, R. Giacobazzi, and G. Levi. A general framework for semantics-based bottom-up abstract interpretation of logic programs. *ACM Transactions on Programming Languages and Systems*, 15(1):133–181, January 1993.

- [BGL93b] R. Barbuti, R. Giacobazzi, and G. Levi. A general framework for semantics-based bottom-up abstract interpretation of logic programs. *ACM Transactions on Programming Languages and Systems*, 15(1):133–181, January 1993.
- [BHA86a] G.L. Burn, C.L. Hankin, and S. Abramsky. Strictness analysis of higher-order functions. *Science of Computer Programming*, 7:249–278, November 1986.
- [BHA86b] G.L. Burn, C.L. Hankin, and S. Abramsky. The theory of strictness analysis for higher-order functions. In H. Ganzinger and N.D. Jones, editors, *Programs as Data Objects, Proceedings of a Workshop*, Copenhagen, Denmark, 17–19 October 1985, Lecture Notes in Computer Science 217, pages 42–62. Springer, Berlin, Germany, 1986.
- [BHMZ05] R. Bagnara, P.M. Hill, E. Mazzi, and E. Zaffanella. Widening operators for weakly-relational numeric abstractions. In C. Hankin and I. Siveroni, editors, *Proceedings of the Twelfth International Symposium on Static Analysis, SAS ’05*, pages 3–18, London, United Kingdom, Lecture Notes in Computer Science 3672, 7–9 september 2005.
- [BHRZ03] R. Bagnara, P.M. Hill, E. Ricci, and E. Zaffanella. Precise widening operators for convex polyhedra. In R. Cousot, editor, *Proceedings of the Tenth International Symposium on Static Analysis, SAS ’03*, volume 2694 of *Lecture Notes in Computer Science*, pages 337–354, San Diego, California, June 2003. Springer, Berlin, Germany.
- [BHRZ05] R. Bagnara, P.M. Hill, E. Ricci, and E. Zaffanella. Precise widening operators for convex polyhedra. *Sci. Comput. Program.*, 58(1–2):28–56, 2005.
- [BHZ97] R. Bagnara, P.H. Hill, and E. Zaffanella. Set-sharing is redundant for pair-sharing. In P. Van Hentenryck, editor, *Proceedings of the Fourth International Symposium on Static Analysis, SAS ’97*, Paris, France, 8–10 september 1997, Lecture Notes in Computer Science 1302, pages 53–67. Springer, Berlin, Germany, 1997.
- [BHZ05] R. Bagnara, P.M. Hill, and E. Zaffanella. Not necessarily closed convex polyhedra and the double description method. *Formal Asp. Comput.*, 17(2):222–257, 2005.
- [BHZ06] R. Bagnara, P.M. Hill, and E. Zaffanella. The Parma Polyhedra Library: Toward a complete set of numerical abstractions for the analysis and verification of hardware and software systems. Technical report, The Computing Research Repository, CoRR abs/cs/0612085, 2006.
- [BJ88] M. Bruynooghe and G. Janssens. An instance of abstract interpretation integrating type and mode inferencing (extended abstract). In R. Kowalski and K. Bowen, editors, *Proceedings of the Fifth International Conference and Symposium on Logic Programming, Volume 1*, Seattle, Washington, United States, pages 669–683. MIT Press, Cambridge, Massachusetts, United States, 15–19 August 1988.
- [BJ92] M. Bruynooghe and G. Janssens. Propagation: a new operation in a framework for abstract interpretation of logic programs. Report CW 146, Department of Computer Science, Katholieke Universiteit Leuven, Leuven, Belgium, March 1992.

- [BJCD87] M. Bruynooghe, G. Janssens, A. Callebaut, and B. Demoen. Abstract interpretation: towards the global optimization of Prolog programs. In *Proceedings of the 1987 International Symposium on Logic Programming*, San Francisco, California, pages 192–204. IEEE Computer Society Press, Los Alamitos, California, United States, 31 August – 4 september 1987.
- [BJT99] F. Besson, T. Jensen, and J.-P. Talpin. Polyhedral analysis for synchronous languages. In A. Cortesi and G. Filé, editors, *Proceedings of the Sixth International Symposium on Static Analysis, SAS '99*, Venice, Italy, 22–24 september 1999, Lecture Notes in Computer Science 1694, pages 51–68. Springer, Berlin, Germany, 1999.
- [BK89] V. Balasundaram and K. Kennedy. A technique for summarizing data access and its use in parallelism enhancing transformations. In *Proceedings of the ACM SIGPLAN'89 Conference on Programming Language Design and Implementation (PLDI)*. ACM SIGPLAN Notices 24(7), pages 41–53, Portland, Oregon, United States, 21–23 June 1989.
- [BK95] M.A. Bulyonkov and V.Ja. Kurlyandchik. Polyvariant binding time analysis for high-order programs. In *Tools and methgods for program development*, pages 29–41. Institute of Informatics Systems, Novosibirsk, Russia, 1995. In russian.
- [Bla98] B. Blanchet. Escape analysis: Correctness proof, implementation and experimental results. In *Conference Record of the Twentyfifth Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages*, pages 25–37, San Diego, California, United States, 19–21 January 1998. ACM Press, New York, New York, United States.
- [Bla99] B. Blanchet. Escape analysis for object-oriented languages: Application to Java<sup>TM</sup>. In *Proceedings of the ACM SIGPLAN Conference on Object-Oriented Programming Systems, Languages & Applications (OOPSLA '99)*. ACM SIGPLAN Notices 34(10), pages 20–34, Denver, Colorado, United States, 1–5 November 1999.
- [Bla00] B. Blanchet. *Escape Analysis, Applications to ML and Java<sup>TM</sup>*. Thèse de doctorat en informatique, École polytechnique, Palaiseau, France, 7 December 2000.
- [Bla01] B. Blanchet. Abstracting cryptographic protocols by PROLOG rules, invited talk. In P. Cousot, editor, *Proceedings of the Eight International Symposium on Static Analysis, SAS '01*, volume 2126 of *Lecture Notes in Computer Science*, pages 433–436, Paris, France, July 2001. Springer, Berlin, Germany.
- [Bla03] B. Blanchet. Escape analysis for Java<sup>TM</sup>. theory and practice. *ACM Transactions on Programming Languages and Systems*, 25(6):713–775, November 2003.
- [Bla05] B. Blanchet. Security protocols: From linear to classical logic by abstract interpretation. *Information Processing Letters*, 95(5):473–479, september 2005.
- [BLGH04] F. Bueno, P. López-García, and M.V. Hermenegildo. Multivariant non-failure analysis via standard abstract interpretation. In Y. Kameyama and P.J. Stuckey, editors, *Seventh Fuji International Symposium on Functional and Logic Programming, FLOPS '04*, Nara, Japan, 7–9 April 2004, Lecture Notes in Computer Science 2998, pages 100–116. Springer, Berlin, Germany, 2004.

- [BM88] R. Barbuti and M. Martelli. A tool to check the non-floundering logic programs and goals. In P. Deransart, B. Lorho, and J. Małuszyński, editors, *Proceedings of the First International Workshop Programming Language Implementation and Logic Programming, PLILP '88*, pages 58–67. Springer, Berlin, Germany, Orléans, France, Lecture Notes in Computer Science 348, 16–18 May 1988.
- [BM99] C. Beierle and G. Meyer. Using types as approximations for type checking Prolog programs. In A. Middeldorp and T. Sato, editors, *Fourth Fuji International Symposium on Functional and Logic Programming, FLOPS '99*, Tsukuba, Japan, 11–13 November 1999, Lecture Notes in Computer Science 1722, pages 251–266. Springer, Berlin, Germany, 1999.
- [BMMR01] T. Ball, R. Majumdar, T.D. Millstein, and S.K. Rajamani. Automatic predicate abstraction of C programs. In *Proceedings of the ACM SIGPLAN 2001 Conference on Programming Language Design and Implementation (PLDI)*. ACM SIGPLAN Notices 36(5), pages 203–213. ACM Press, New York, New York, United States, June 2001.
- [BMR02] T. Ball, T. Millstein, and S.K. Rajamani. Polymorphic predicate abstraction. Technical report MSR-TR-2001-10, Microsoft Research, Redmond, Washington, United States, 17 June 2002. 21 p.
- [Bou90] F. Bourdoncle. Interprocedural abstract interpretation of block structured languages with nested procedures, aliasing and recursivity. In P. Deransart and J. Małuszyński, editors, *Proceedings of the International Workshop Programming Language Implementation and Logic Programming, PLILP '90*, Linköping, Sweden, Lecture Notes in Computer Science 456, pages 307–323. Springer, Berlin, Germany, 20–22 August 1990.
- [Bou92a] D.Y. Boulanger. Deep logic program transformation using abstract interpretation. In A. Voronkov, editor, *Proceedings of the First & Second Russian Conference on Logic Programming*, Irkutsk, Russia, 14–18 september 1990 & St. Petersburg, Russia, 11–16 september 1991 Lecture Notes in Computer Science 592, pages 79–101. Springer, Berlin, Germany, 1992.
- [Bou92b] F. Bourdoncle. Abstract interpretation by dynamic partitioning. *Journal of Functional Programming*, 2(4):407–435, 1992.
- [Bou92c] F. Bourdoncle. *Sémantiques des langages impératifs d'ordre supérieur et interprétation abstraite*. Thèse de doctorat en informatique, École polytechnique, Palaiseau, France, 13 November 1992.
- [Bou93a] F. Bourdoncle. Abstract debugging of higher-order imperative languages. In *Proceedings of the ACM SIGPLAN '93 Conference on Programming Language Design and Implementation (PLDI)*. ACM SIGPLAN Notices 28(6), pages 46–55, Albuquerque, New Mexico, United States, 23–25 June 1993. ACM Press, New York, New York, United States.
- [Bou93b] F. Bourdoncle. Efficient chaotic iteration strategies with widenings. In D. Bjørner, M. Broy, and I.V. Pottosin, editors, *Proceedings of the International Conference on Formal Methods in Programming and their Applications*, Akademgorodok, Novosibirsk, Russia, Lecture Notes in Computer Science 735, pages 128–141. Springer, Berlin, Germany, 28 June –2 July 1993.
- [Bou99] F. Bourdoncle. Assertion-based debugging of imperative programs by abstract interpretation. In I. Sommerville and M. Paul, editors, *Proceedings of the Fourth European Software Engineering Conference, ESEC '93*, Garmisch-Partenkirchen, Germany, 13–17 september 1993, Lecture Notes in Computer Science 717, pages 501–516. Springer, Berlin, Germany, 1999.

- [BP99] J. Bailey and A. Poulovassilis. Abstract interpretation for termination analysis in functional active databases. *Journal of Intelligent Information Systems*, 12(2–3):243–273, 1999.
- [BPC01] J. Bailey, A. Poulovassilis, and C. Courtenage. Optimising active database rules by partial evaluation and abstract interpretation. In *Proceedings of the Eight International Workshop on Database Programming Languages*, Lecture Notes in Computer Science 2397, pages 300–317, Frascati, Italy, 8–10 september 2001. Springer, Berlin, Germany.
- [BPR02] T. Ball, A. Podelski, and S.K. Rajamani. Relative completeness of abstraction refinement for software model checking. In J.-P. Katoen and P. Stevens, editors, *Proceedings of the Eight International Conference on Tools and Algorithms for the Construction and Analysis of Systems, TACAS '2002*, Grenoble, France, Lecture Notes in Computer Science 2280, pages 158–172. Springer, Berlin, Germany, 8–12 April 2002.
- [Bru87] M. Bruynooghe. A practical framework for abstract interpretation of logic programs. Revised version of report CW 62, Department of Computer Science, Katholieke Universiteit Leuven,, Leuven, Belgium, October 1987. revised version in [Bru91].
- [Bru91] M. Bruynooghe. A practical framework for the abstract interpretation of logic programs. *Journal of Logic Programming*, 10(1,2,3&4):91–124, January 1991.
- [BRZH02] R. Bagnara, E. Ricci, E. Zaffanella, and P.M. Hill. Possibly not closed convex polyhedra and the Parma Polyhedra Library. In M. Hermenegildo and G. Puebla, editors, *Proceedings of the Ninth International Symposium on Static Analysis, SAS '02*, volume 2477 of *Lecture Notes in Computer Science*, pages 213–229, Madrid, Spain, september 2002. Springer, Berlin, Germany.
- [BS88] A.K. Bansal and L. Sterling. An abstract interpretation scheme for logic programming based on type expressions. In Institute for New Generation Computer Technology (ICOT), editor, *Proceedings of the International Conference on Fifth Generation Computer Systems 88, 3 Volumes*, Tokyo, Japan, 28 November – 2 December 1988, pages 422–429. OHMSHA Ltd. Tokyo & Springer, Berlin, Germany, 1988.
- [BS97] V. Benzaken and X. Schaefer. Static integrity constraint management in object-oriented database programming languages via predicate transformers. In M. Aksit and S. Matsuoka, editors, *Proceedings of the Eleventh European Conference on Object-Oriented Programming, ECOOP '97*, Lecture Notes in Computer Science 1241. Springer, Berlin, Germany, Jyväskylä, Finland, 9–13 June 1997.
- [BS99] R. Bagnara and P. Schachte. Factorizing equivalent variable pairs in ROBDD-based implementations of Pos. In A.M. Haeberer, editor, *Proceedings of the Seventh International Conference on Algebraic Methodology and Software Technology, AMAST '98*, Amazonia, Brazil, 4–8 January 1999, Lecture Notes in Computer Science 1548, pages 471–485. Springer, Berlin, Germany, 1999.
- [Bul93] M.A. Bulyonkov. Extracting polyvariant binding time analysis from polyvariant specializer. In *Proceedings of the ACM Symposium on Partial Evaluation and Semantics-Based Program Manipulation, PEPM '93*, Copenhagen, Denmark, 14–16 June 1993, pages 59–65. ACM Press, New York, New York, United States, 1993.

- [BW07] J. Bauer and R. Wilhelm. Static analysis of dynamic communication systems by partner abstraction. In G. Filé and H. Riis Nielson, editors, *Proceedings of the Fourteenth International Symposium on Static Analysis, SAS'07*, Kongens Lyngby, Denmark, Lecture Notes in Computer Science 4634, page 249264. Springer, Berlin, Germany, 22–24 August 2007.
- [BZGH01] R. Bagnara, E. Zaffanella, R. Gori, and P.M. Hill. Boolean functions for finite-tree dependencies. In R. Nieuwenhuis and A. Voronkov, editors, *Proceedings of the Eight International Conference on Logic Programming and Automated Reasoning, LPAR '01*, pages 579–594, Havana, Cuba, Lecture Notes in Computer Science 2250, 3–8 December 2001. Springer, Berlin, Germany.
- [Cas97] Y. Caseau. Abstract interpretation of constraints on order-sorted domains. In K. Ueda V.A. Saraswat, editor, *Proceedings of the 1991 International Symposium on Logic Programming, ISLP '91*, San Diego, California, United States, pages 435–452. MIT Press, Cambridge, Massachusetts, United States, 28 October – 1 November 1997.
- [CC75] P. Cousot and R. Cousot. Static verification of dynamic type properties of variables. Research report R.R. 25, Laboratoire IMAG, Université scientifique et médicale de Grenoble, Grenoble, France, November 1975. 18 p.
- [CC76] P. Cousot and R. Cousot. Static determination of dynamic properties of programs. In *Proceedings of the Second International Symposium on Programming*, pages 106–130, Paris, France, 1976. Dunod, Paris, France.
- [CC77a] P. Cousot and R. Cousot. Abstract interpretation: a unified lattice model for static analysis of programs by construction or approximation of fixpoints. In *Conference Record of the Fourth Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages*, pages 238–252, Los Angeles, California, 1977. ACM Press, New York, New York, United States.
- [CC77b] P. Cousot and R. Cousot. Automatic synthesis of optimal invariant assertions: mathematical foundations. In *ACM Symposium on Artificial Intelligence & Programming Languages*, Rochester, New York, ACM SIGPLAN Notices 12(8):1–12, 1977. ACM Press, New York, New York, United States.
- [CC77c] P. Cousot and R. Cousot. Static determination of dynamic properties of generalized type unions. In *ACM Symposium on Language Design for Reliable Software*, Raleigh, North Carolina, ACM SIGPLAN Notices 12(3):77–94, 1977.
- [CC77d] P. Cousot and R. Cousot. Static determination of dynamic properties of recursive procedures. In E.J. Neuhold, editor, *IFIP Conference on Formal Description of Programming Concepts, St-Andrews, N.B., Canada*, pages 237–277. North-Holland Pub. Co., Amsterdam, The Netherlands, 1977.
- [CC79] P. Cousot and R. Cousot. Systematic design of program analysis frameworks. In *Conference Record of the Sixth Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages*, pages 269–282, San Antonio, Texas, 1979. ACM Press, New York, New York, United States.
- [CC80] P. Cousot and R. Cousot. Semantic analysis of communicating sequential processes. In J.W. de Bakker and J. van Leeuwen, editors, *Seventh International Colloquium on Automata, Languages and Programming*, Lecture Notes in Computer Science 85, pages 119–133. Springer, Berlin, Germany, July 1980.

- [CC82] P. Cousot and R. Cousot. Induction principles for proving invariance properties of programs, invited chapter. In D. Néel, editor, *Tools & Notions for Program Construction*, pages 43–119. Cambridge University Press, Cambridge, United Kingdom, 1982.
- [CC84] P. Cousot and R. Cousot. Invariance proof methods and analysis techniques for parallel programs, invited chapter. In A.W. Biermann, G. Guiho, and Y. Kodratoff, editors, *Automatic Program Construction Techniques*, chapter 12, pages 243–271. Macmillan, New York, New York, United States, 1984.
- [CC85a] P. Cousot and R. Cousot. ‘À la Floyd’ induction principles for proving inevitability properties of programs, invited chapter. In M. Nivat and J. Reynolds, editors, *Algebraic Methods in Semantics*, chapter 8, pages 277–312. Cambridge University Press, Cambridge, United Kingdom, 1985.
- [CC85b] P. Cousot and R. Cousot. Principe des méthodes de preuve de propriétés d’invariance et de fatalité des programmes parallèles, invited chapter (in French). In J.-P. Verjus and G. Roucairol, editors, *Parallelisme, Communication et Synchronisation*, pages 129–149. Éditions du CNRS, Paris, France, 1985.
- [CC90] M.-M. Corsini C. Codognet, P. Codognet. Abstract interpretation for concurrent logic languages. In S.K. Debray and M.V. Hermenegildo, editors, *Logic Programming, Proceedings of the 1997 North American Conference , NACLP 1997*, Austin, Texas, United States, pages 215–232. MIT Press, Cambridge, Massachusetts, United States, 29 October – 1 November 1990.
- [CC92a] P. Cousot and R. Cousot. Comparing the Galois connection and widening/narrowing approaches to abstract interpretation, invited paper. In M. Bruynooghe and M. Wirsing, editors, *Proceedings of the Fourth International Symposium on Programming Language Implementation and Logic Programming, PLILP ’92*, Leuven, Belgium, 26–28 August 1992, Lecture Notes in Computer Science 631, pages 269–295. Springer, Berlin, Germany, 1992.
- [CC92b] P. Cousot and R. Cousot. Inductive definitions, semantics and abstract interpretation. In *Conference Record of the Nineteenth Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages*, pages 83–94, Albuquerque, New Mexico, United States, 1992. ACM Press, New York, New York, United States.
- [CC93] P. Cousot and R. Cousot. Galois connection based abstract interpretations for strictness analysis, invited paper. In D. Bjørner, M. Broy, and I.V. Pottosin, editors, *Proceedings of the International Conference on Formal Methods in Programming and their Applications*, Akademgorodok, Novosibirsk, Russia, Lecture Notes in Computer Science 735, pages 98–127. Springer, Berlin, Germany, 28 June – 2 July 1993.
- [CC94] P. Cousot and R. Cousot. Higher-order abstract interpretation (and application to comportment analysis generalizing strictness, termination, projection and PER analysis of functional languages), invited paper. In *Proceedings of the 1994 International Conference on Computer Languages*, pages 95–112, Toulouse, France, 16–19 May 1994. IEEE Computer Society Press, Los Alamitos, California, United States.
- [CC95] P. Cousot and R. Cousot. Formal language, grammar and set-constraint-based program analysis by abstract interpretation. In *Proceedings of the Seventh ACM Conference on Functional Programming Languages and Computer Architecture*, pages 170–181, La Jolla, California, United States, 25–28 June 1995. ACM Press, New York, New York, United States.

- [CC97] P. Cousot and R. Cousot. Abstract interpretation of algebraic polynomial systems. In M. Johnson, editor, *Proceedings of the Sixth International Conference on Algebraic Methodology and Software Technology, AMAST '97*, Sydney, Australia, Lecture Notes in Computer Science 1349, pages 138–154. Springer, Berlin, Germany, 13–18 December 1997.
- [CC99] P. Cousot and R. Cousot. Refining model checking by abstract interpretation. *Automated Software Engineering*, 6:69–95, 1999.
- [CC00] P. Cousot and R. Cousot. Temporal abstract interpretation. In *Conference Record of the Twentyseventh Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages*, pages 12–25, Boston, Massachusetts, United States, January 2000. ACM Press, New York, New York, United States.
- [CC02a] P. Cousot and R. Cousot. Modular static program analysis, invited paper. In R.N. Horspool, editor, *Proceedings of the Eleventh International Conference on Compiler Construction, CC '2002*, pages 159–178, Grenoble, France, 6–14 April 2002. Lecture Notes in Computer Science 2304, Springer, Berlin, Germany.
- [CC02b] P. Cousot and R. Cousot. Systematic design of program transformation frameworks by abstract interpretation. In *Conference Record of the Twentyninth Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages*, pages 178–190, Portland, Oregon, United States, January 2002. ACM Press, New York, New York, United States.
- [CC03] P. Cousot and R. Cousot. Parsing as abstract interpretation of grammar semantics. *Theoretical Computer Science*, 290(1):531–544, January 2003.
- [CC04] P. Cousot and R. Cousot. An abstract interpretation-based framework for software watermarking. In *Conference Record of the Thirtyfirst Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages*, pages 173–185, Venice, Italy, 14–16 January 2004. ACM Press, New York, New York, United States.
- [CC06] P. Cousot and R. Cousot. Grammar analysis and parsing by abstract interpretation, invited chapter. In T. Reps, M. Sagiv, and J. Bauer, editors, *Program Analysis and Compilation, Theory and Practice: Essays dedicated to Reinhard Wilhelm*, Lecture Notes in Computer Science 4444, pages 178–203. Springer, Berlin, Germany, 2006.
- [CC07] P. Cousot and R. Cousot. Bi-inductive structural semantics. In *Structural Operational Semantics, SOS' 07*, Wroclaw, Poland, 9 July 2007.
- [CCF<sup>+</sup>05] P. Cousot, R. Cousot, J. Feret, L. Mauborgne, A. Miné, D. Monniaux, and X. Rival. The ASTRÉE analyser. In M. Sagiv, editor, *Proceedings of the Fourteenth European Symposium on Programming Languages and Systems, ESOP '2005, Edinburg, Scotland*, volume 3444 of *Lecture Notes in Computer Science*, pages 21–30. Springer, Berlin, Germany, 2–10 April 2005.
- [CCF<sup>+</sup>06] P. Cousot, R. Cousot, J. Feret, L. Mauborgne, A. Miné, D. Monniaux, and X. Rival. Combination of abstractions in the ASTRÉE static analyzer, invited paper. In M. Okada and I. Satoh, editors, *Eleventh Annual Asian Computing Science Conference, ASIAN 06*, Tokyo, Japan, 6–8 December 2006. Lecture Notes in Computer Science , Springer, Berlin, Germany. To appear.

- [CCF<sup>+</sup>07] P. Cousot, R. Cousot, J. Feret, L. Mauborgne, A. Miné, D. Monniaux, and X. Rival. Varieties of static analyzers: A comparison with ASTRÉE, invited paper. In M. Hinckey, He Jifeng, and J. Sanders, editors, *Proceedings of the First IEEE & IFIP International Symposium on Theoretical Aspects of Software Engineering, TASE '07*, pages 3–17, Shanghai, China, 6–8 June 2007. IEEE Computer Society Press, Los Alamitos, California, United States.
- [CCG94] B.M. Chang, K.M. Choe, and R. Giacobazzi. Abstract filters: Improving bottom-up executions of logic programs by two-phase abstract interpretation. In *Proceedings of the Ninth ACM Symposium on Applied Computing*, Phoenix, Arizona, March 1994. ACM Press, New York, New York, United States.
- [CCH93] B.-M. Chang, K.-M. Choe, and T. Han. Efficient bottom-up execution of logic programs using abstract interpretation. *Information Processing Letters*, 47(3):149–157, March 1993.
- [CD85] J. Chang and A.M. Despain. Semi-intelligent backtracking of Prolog based on static data dependency analysis. In *Proceedings of the 1985 International Symposium on Logic Programming*, Boston, Massachusetts, United States, pages 10–21. IEEE Computer Society Press, Los Alamitos, California, United States, July 1985.
- [CD93] M. Codish and B. Demoen. Analysing logic programs using Propositional logic programs and a magic wand. In D. Miller, editor, *Proceedings of the International Symposium on Logic Programming, ILPS '1993*, Vancouver, British Columbia, Canada, pages 114–129. MIT Press, Cambridge, Massachusetts, United States, 1993.
- [CD94] M. Codish and B. Demoen. Deriving polymorphic type dependencies for logic programs using multiple incarnations of Prop. In B. Le Charlier, editor, *Proceedings of the First International Symposium on Static Analysis, SAS '94*, Namur, Belgium, 20–22 september 1994, Lecture Notes in Computer Science 864, pages 281–296. Springer, Berlin, Germany, 1994.
- [CD95] M. Codish and B. Demoen. Analysing logic programs using Propositional logic programs and a magic wand. *Journal of Logic Programming*, 25(3):249–274, 1995.
- [CDD85] J. Chang, A.M. Despain, and D. DeGroot. AND-parallelism of logic programs based on a static data dependency analysis. In *Digest of Papers, COMPCON 85*, pages 218–225. IEEE Computer Society Press, Los Alamitos, California, United States, February 1985.
- [CDFB93] M. Codish, D. Dams, G. Filè, and M. Bruynooghe. Freeness analysis for logic programs – and correctness? In D.S. Warren, editor, *Proceedings of the Tenth International Conference on Logic Programming, ICLP '93*, Budapest, Hungary, pages 116–131. MIT Press, Cambridge, Massachusetts, United States, 21–25 June 1993.
- [CDFB96] A. Cortesi, D. Dams, G. Filé, and M. Bruynooghe. On the design of a correct freeness analysis for logic programs. *Journal of Logic Programming*, 28(3):181–206, 1996.
- [CDG93] M. Codish, S. Debray, and R. Giacobazzi. Compositional analysis of modular logic programs. In *Conference Record of the Twentieth Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages*, pages 451–464, Charleston, South Carolina, 1993. ACM Press, New York, New York, United States.

- [CdlBBH97] M. Codish, M. García de la Banda, M. Bruynooghe, and M. Hermenegildo. Exploiting goal independence in the analysis of logic programs. *Journal of Logic Programming*, 32(3):247–261, 1997.
- [CDS98] M. Codish, B. Demoen, and K. Sagonas. Semantic-based program analysis for logic-based languages using XSB. *International Journal on Software Tools for Technology Transfer*, 2(1):29–45, 1998.
- [CDY90a] M. Codish, D. Dams, and E. Yardeni. Abstract unification for the analysis of groundness and aliasing in logic programs. Technical report TR-CS90-10, Weizmann Institute of Science, Department of applied mathematics and computer science, August 1990.
- [CDY90b] M. Codish, D. Dams, and E. Yardeni. Bottom-up abstract interpretation of logic programs. Technical report TR-CS90-24, Weizmann Institute of Science, Department of applied mathematics and computer science, 1990.
- [CDY91] M. Codish, D. Dams, and E. Yardeni. Derivation and safety of an abstract unification algorithm for groundness and aliasing analysis. In K. Furukawa, editor, *Proceedings of the Eight International Conference on Logic Programming, ICLP '91*, Paris, France, pages 79–93. MIT Press, Cambridge, Massachusetts, United States, 24–28 June 1991.
- [CDY94a] M. Codish, D. Dams, and E. Yardeni. Bottom-up abstract interpretation of logic programs. *Theoretical Computer Science*, 124(1):93–126, February 1994.
- [CDY94b] M. Codish, D. Dams, and E. Yardeni. Bottom-up abstract interpretation of logic programs. *Theoretical Computer Science*, 124(1):93–125, February 1994.
- [CF91a] P. Codognet and G. Filé. Computations, abstractions and constraints (abstract). *Actes JTASPEFL '91, Bordeaux, France. BIGRE*, 74:70–71, October 1991.
- [CF91b] A. Cortesi and G. Filé. Abstract interpretation of logic programs: an abstract domain for groundness, sharing, freeness and compoundness analysis. In P. Hudak and N.D. Jones, editors, *Proceedings of the ACM Symposium on Partial Evaluation and Semantics-Based Program Manipulation, PEPM '91*, Yale U., New Haven, Connecticut, United States, 17–19 June 1991, ACM SIGPLAN Notices 26(9), pages 52–61. ACM Press, New York, New York, United States, september 1991.
- [CF99] A. Cortesi and G. Filé. Sharing is optimal. *Journal of Logic Programming*, 38(3):371–386, 1999.
- [CFM91] M. Codish, M. Falaschi, and K. Marriott. Suspension analysis of concurrent logic programs. In K. Furukawa, editor, *Proceedings of the Eight International Conference on Logic Programming, ICLP '91*, Paris, France, pages 331–345. MIT Press, Cambridge, Massachusetts, United States, 24–28 June 1991.
- [CFM94a] M. Codish, M. Falaschi, and K. Marriott. Suspension analyses for concurrent logic programs. *ACM Transactions on Programming Languages and Systems*, 16(3):649–686, May 1994.
- [CFM94b] M. Codish, M. Falaschi, and K. Marriott. Suspension analysis for concurrent logic programs. *ACM Transactions on Programming Languages and Systems*, 16(3):649–686, 1994.

- [CFM94c] M. Codish, M. Falaschi, and K. Marriott. Suspension analysis of concurrent logic programs. *ACM Transactions on Programming Languages and Systems*, 16(3):649–686, May 1994.
- [CFMW92] M. Codish, . Falaschi, K. Marriott, and W.H. Winsborough. Efficient analysis of reactive properties of concurrent constraint logic programs. In M. Billaud, P. Castéran, M.-M. Corsini, K. Musumbu, and A. Rauzy, editors, *Proceedings of the Second International Workshop on Static Analysis, WSA '92, Bordeaux, France*. BIGRE, volume 81–82, pages 35–42. IRISA, Rennes, France, 23–25 september 1992.
- [CFMW93] M. Codish, M. Falaschi, K. Marriott, and W. Winsborough. Efficient analysis of reactive properties of concurrent constraint logic programs. In *Twelfth International Colloquium on Automata, Languages and Programming*, Lecture Notes in Computer Science. SPRINGER, July 1993.
- [CFMW97] M. Codish, M. Falaschi, K. Marriott, and W. Winsborough. A confluent semantic basis for the analysis of concurrent constraint logic programs. *Journal of Logic Programming*, 30(1):53–81, 1997.
- [CFRS98] H. Casse, L. Feraud, C. Rochange, and P. Sinrat. Using abstract interpretation techniques for static pointer analysis. In *The Third Workshop on Interaction Between Compilers and Computer Architectures*, San Jose, California, October 7, 1998.
- [CFW91] A. Cortesi, G. Filé, and W. Winsborough. Prop revisited: propositional formulas as abstract domains for groundness analysis. In G. Kahn, editor, *Proceedings of the Sixth Annual IEEE Symposium on Logic in Computer Science, LICS'91, Amsterdam, The Netherlands*, pages 322–327. IEEE Computer Society Press, Los Alamitos, California, United States, 15–18 July 1991.
- [CFW92] A. Cortesi, G. Filé, and W.H. Winsborough. Comparison of abstract interpretations. In W. Kuich, editor, *Nineteenth International Colloquium on Automata, Languages and Programming*, Vienna, Austria, Lecture Notes in Computer Science 623, pages 521–532. Springer, Berlin, Germany, 13–17 July 1992.
- [CFW96] A. Cortesi, G. Filé, and W.H. Winsborough. Optimal groundness analysis using propositional logic. *Journal of Logic Programming*, 27(2):137–167, 1996.
- [CGdIBBH93] M. Codish, M. García de la Banda, M. Bruynooghe, and M. Hermenegildo. Top-down vs bottom-up analysis of logic programs – closing the circle. Report CW 177, Department of Computer Science, Katholieke Universiteit Leuven, Leuven, Belgium, May 1993.
- [CGL01] M. Comini, R. Gori, and G. Levi. How to transform an analyzer into a verifier. In R. Nieuwenhuis and A. Voronkov, editors, *Proceedings of the Eight International Conference on Logic Programming and Automated Reasoning, LPAR '01*, pages 595–609, Havana, Cuba, Lecture Notes in Computer Science 2250, 3–8 December 2001. Springer, Berlin, Germany.
- [CGLH05] S.-J. Craig, J.P. Gallagher, M. Leuschel, and K.S. Henriksen. Fully automatic binding-time analysis for Prolog. In S. Etalle, editor, *Proceedings of the Fourteenth International Symposium on Logic Program Synthesis and Transformation, LOPSTR '2004*, Verona, Italy, 26–28 August 2004, Lecture Notes in Computer Science 3573, pages 53–68. Springer, Berlin, Germany, 2005.
- [CGLV99] M. Comini, R. Gori, G. Levi, and P. Volpe. Abstract interpretation based verification of logic programs. *Electronic Notes in Theoretical Computer Science*, 30(1), 1999.

- [CGR07] P. Cousot, P. Ganty, and J.-F. Raskin. Fixpoint-guided abstraction refinements. In G. Filé and H. Riis-Nielson, editors, *Proceedings of the Fourteenth International Symposium on Static Analysis, SAS'07*, Kongens Lyngby, Denmark, Lecture Notes in Computer Science 4634, pages 333–348. Springer, Berlin, Germany, 22–24 August 2007.
- [CGS89] M. Codish, J. Gallagher, and E. Shapiro. Using safe approximations of fixed points for analysis of logic programs. In H. Abramson and M.H. Rogers, editors, *Meta-programming in Logic Programming*, pages 233–262. MIT Press, Cambridge, Massachusetts, United States, 1989.
- [CH78] P. Cousot and N. Halbwachs. Automatic discovery of linear restraints among variables of a program. In *Conference Record of the Fifth Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages*, pages 84–97, Tucson, Arizona, 1978. ACM Press, New York, New York, United States.
- [CH92a] B. Le Charlier and . Van Hentenryck. Reexecution in abstract interpretation of Prolog. In K.R. Apt, editor, *Proceedings of the Joint International Conference and Symposium on Logic Programming, JICSLP'92*, Washington, D.C., United States, pages 750–764. MIT Press, Cambridge, Massachusetts, United States, November 1992.
- [CH92b] J.-H. Chow and W.L. III Harrison. Compile-time analysis of parallel programs that share memory. In *Conference Record of the Nineteenth Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages*, pages 130–141, Albuquerque, New Mexico, 1992. ACM Press, New York, New York, United States.
- [CH93] B. Le Charlier and P. Van Hentenryck. Groundness analysis for Prolog: Implementation and evaluation of the domain Prop. In *Proceedings of the ACM Symposium on Partial Evaluation and Semantics-Based Program Manipulation, PEPM'93*, Copenhagen, Denmark, 14–16 June 1993, pages 99–110. ACM Press, New York, New York, United States, 1993.
- [CH94] J.-H. Chow and W.L. III Harrison. State space reduction in abstract interpretation of parallel programs. In *Proceedings of the 1994 International Conference on Computer Languages*, Toulouse, France, pages 277–288. IEEE Computer Society Press, Los Alamitos, California, United States, 16–19 May 1994.
- [CH95] B. Le Charlier and . Van Hentenryck. Reexecution in abstract interpretation of Prolog. *Acta Informatica*, 32(3):209–270, 1995.
- [Cha94] B. Le Charlier. Abstract interpretation and finite domain symbolic constraints. In A. Podelski, editor, *Constraint Programming: Basics and Trends, Selected Papers*, Châtillon Spring School, Châtillon-sur-Seine, France, 16–20 May 1994, Lecture Notes in Computer Science 910, pages 147–170. Springer, Berlin, Germany, 1994.
- [CHH04] D. Cabeza, M.V. Hermenegildo, and J.L. Hiord. A type-free higher-order logic programming language with predicate abstraction. In M.J. Maher, editor, *Advances in Computer Science, Higher-Level Decision Making, Ninth Annual Asian Computing Science Conference, ASIAN'04, Dedicated to Jean-Louis Lassez on the Occasion of His 5th Cycle Birthday*, volume 3321 of *Lecture Notes in Computer Science*, pages 93–108, Chiang Mai, Thailand, 8–10 December 2004. Springer, Berlin, Germany.
- [CI98] B. Creusillet and F. Irigoin. Interprocedural analyses of fortran programs. *Parallel Computing*, 24(3–4):629–648, 1998.

- [CIY95] Li-Ling Chen, W.L. Harrison III, and Kwangkeun Yi. Efficient computation of fixpoints that arise in complex program analysis. *J. Prog. Lang.*, 3(1):31–68, 1995.
- [CJPR05] D. Cachera, T. Jensen, D. Pichardie, and V. Rusu. Extracting a data flow analyser in constructive logic. *Theoretical Computer Science*, 342(1):56–78, september 2005.
- [CL94] M. Comini and G. Levi. An algebraic theory of observables. In M. Bruynooghe, editor, *Proceedings of the International Symposium on Logic Programming, ILPS'1994*, Ithaca, New York, United States, pages 157–171. MIT Press, Cambridge, Massachusetts, United States, 13–17 November 1994.
- [CL00] M. Codish and V. Lagoon. Type dependencies for logic programs using ACI-unification. *Theoretical Computer Science*, 238:131–159, 2000.
- [Cla80] E.M. Clarke. Synthesis of resource invariants for concurrent programs. *ACM Transactions on Programming Languages and Systems*, 2(3):338–358, 1980.
- [CLB97] M. Codish, V. Lagoon, and F. Bueno. An algebraic approach to sharing analysis of logic programs. In P. Van Hentenryck, editor, *Proceedings of the Fourth International Symposium on Static Analysis, SAS'97*, Paris, France, 8–10 september 1997, Lecture Notes in Computer Science 1302, pages 68–82. Springer, Berlin, Germany, 1997.
- [CLB00] M. Codish, V. Lagoon, and F. Bueno. An algebraic approach to sharing analysis of logic programs. *Journal of Logic Programming*, 41(2):110–149, 2000.
- [CLCvH00] A. Cortesi, B. Le Charlier, and P. van Hentenryck. Combinations of abstract domains for logic programming: open product and generic pattern construction. *Science of Computer Programming*, 38(1–3):27–71, 2000.
- [CLM95] M. Comini, G. Levi, and M.C. Meo. Compositionality in SLD-derivations and their abstractions. In J.W. Lloyd, editor, *Proceedings of the International Symposium on Logic Programming, ILPS'1995*, Portland, Oregon, United States, pages 561–575. MIT Press, Cambridge, Massachusetts, United States, 4–7 December 1995.
- [CLM96a] A. Ciampolini, E. Lamma, and P. Mello. An abstract interpretation framework for optimizing dynamic modular logic languages. *Information Processing Letters*, 58(4):163–170, 1996.
- [CLM96b] A. Ciampolini, E. Lamma, and P. Mello. An abstract interpretation framework for optimizing dynamic modular logic languages. *Information Processing Letters*, 58(4):163–170, March 1996.
- [CLM01] M. Comini, G. Levi, and M.C. Meo. A theory of observables for logic programs. *Information and Computation*, 169(1):23–80, 2001.
- [CLMV97] M. Comini, G. Levi, M.C. Meo, and G. Vitiello. Proving properties of logic programs by abstract diagnosis. In M. Dam, editor, *Analysis and Verification of Multiple-Agent Languages, Fifth LOMAPS Workshop*, Stockholm, Sweden, 24–26 June 1996, Lecture Notes in Computer Science 1192, pages 22–50. Springer, Berlin, Germany, 1997.

- [CLMV99] M. Comini, G. Levi, M. Chiara Meo, and G. Vitiello. Abstract diagnosis. *Journal of Logic Programming*, 39(1–3):43–93, 1999.
- [CLV94] M. Comini, G. Levi, and G. Vitiello. Abstract debugging of logic program. In L. Fribourg and F. Turini, editors, *Proceedings of the International Workshops on Logic Program Synthesis and Transformation, LOPSTR '94 and International Symposium Meta-Programming in Logic, META '94*, Pisa, Italy, 20–21 June 1994, Lecture Notes in Computer Science 883, pages 440–450. Springer, Berlin, Germany, 1994.
- [CLV95a] M. Comini, G. Levi, and G. Vitiello. Declarative diagnosis revisited. In J.W. Lloyd, editor, *Proceedings of the International Symposium on Logic Programming, ILPS '1995*, Portland, Oregon, United States, pages 275–287. MIT Press, Cambridge, Massachusetts, United States, 4–7 December 1995.
- [CLV95b] M. Comini, G. Levi, and G. Vitiello. Efficient detection of incompleteness errors in the abstract debugging of logic programs. In A. Cortesi and G. Filé, editors, *Proceedings of the Second International Workshop on Automated and Algorithmic Debugging, AADEBUG '95*, Saint Malo, France, 22–24 May 1995, pages 159–174. IRISA-CNRS, Rennes, France, 1995.
- [CM96] M. Codish and G. Mashevitzky. Proving implications by algebraic approximation. *Theoretical Computer Science*, 165:57–74, 1996.
- [CMB<sup>+</sup>93] M. Codish, A. Mulkers, M. Bruynooghe, M. García de la Banda, and M. Hermenegildo. Improving abstract interpretations by combining domains. In *Proceedings of the ACM Symposium on Partial Evaluation and Semantics-Based Program Manipulation, PEPM '93*, Copenhagen, Denmark, 14–16 June 1993, pages 194–205. ACM Press, New York, New York, United States, 1993.
- [CMB<sup>+</sup>95] M. Codish, A. Mulkers, M. Bruynooghe, M. García de la Banda, and M. Hermenegildo. Improving abstract interpretations by combining domains. *ACM Transactions on Programming Languages and Systems*, 17(1):28–44, January 1995.
- [CMRLC93] M.-M. Corsini, K. Musumbu, A. Rauzy, and B. Le Charlier. Efficient bottom-up abstract interpretation of logic programs by means of constraint solving over symbolic finite domains. In M. Bruynooghe and J. Penjam, editors, *Proceedings of the Fifth International Symposium on Programming Language Implementation and Logic Programming, PLILP '93*, Tallinn, Estonia, 25–27, August 1993, Lecture Notes in Computer Science 714, pages 75–91. Springer, Berlin, Germany, 1993.
- [CMS90] R. Cremonini, K. Marriott, and H. Søndergaard. A general theory for abstraction. In C.P. Tsang, editor, *AI '90: PROCFourth Australian Joint Conference on Artificial Intelligence*, pages 121–134. World Scientific Pub. Ltd., Ottawa, Canada, 1990.
- [CMT00] M. Codish, K. Marriott, and C. Taboch. Improving program analyses by structure unupling. *Journal of Logic Programming*, 43(3):251–263, 2000.
- [Cod99] M. Codish. Worst-case groundness analysis using positive boolean functions. *Journal of Logic Programming*, 41(1):125–128, 1999.

- [Col95a] C. Colby. Analyzing the communication topology of concurrent languages. In *Proceedings of the ACM Symposium on Partial Evaluation and Semantics-Based Program Manipulation, PEPM '95*, La Jolla, California, 21–23 June 1995, pages 202–213. ACM Press, New York, New York, United States, June 1995.
- [Col95b] C. Colby. Determining storage properties of sequential and concurrent programs with assignment and structured data. In A. Mycroft, editor, *Proceedings of the Second International Symposium on Static Analysis, SAS '95*, Glasgow, United Kingdom, 25–27 september 1995, Lecture Notes in Computer Science 983, pages 64–81. Springer, Berlin, Germany, 1995.
- [Con93] C. Consel. Polyvariant binding-time analysis for applicative languages. In *Proceedings of the ACM Symposium on Partial Evaluation and Semantics-Based Program Manipulation, PEPM '93*, Copenhagen, Denmark, 14–16 June 1993, pages 66–77. ACM Press, New York, New York, United States, 1993.
- [Con94] C. Consel. Fast strictness analysis via symbolic fixpoint iteration. In B. Le Charlier, editor, *Proceedings of the First International Symposium on Static Analysis, SAS '94*, Namur, Belgium, 20–22 september 1994, Lecture Notes in Computer Science 864, pages 423–431. Springer, Berlin, Germany, 1994.
- [Cor89] M.-M. Corsini. *Interprétation abstraite en programmation logique: théorie et applications*. Thèse, Université de Bordeaux 1, Bordeaux, France, 12 January 1989.
- [Cou72] P. Cousot. Un analyseur syntaxique pour grammaires hors-contexte ascendant sélectif et général. In *Les techniques de l'informatique*, Congrès AFCET 72, Brochure 1, pages 391–405, Grenoble, France, November 1972.
- [Cou74] P. Cousot. *Définition interprétative et implantation de langages de programmation (in French)*. Thèse de docteur-ingénieur, Université scientifique et médicale de Grenoble, Grenoble, France, 14 December 1974.
- [Cou77] P. Cousot. Asynchronous iterative methods for solving a fixed point system of monotone equations in a complete lattice. Research report R.R. 88, Laboratoire IMAG, Université scientifique et médicale de Grenoble, Grenoble, France, september 1977. 15 p.
- [Cou78] P. Cousot. *Méthodes itératives de construction et d'approximation de points fixes d'opérateurs monotones sur un treillis, analyse sémantique de programmes (in French)*. Thèse d'État ès sciences mathématiques, Université scientifique et médicale de Grenoble, Grenoble, France, 21 March 1978.
- [Cou81] P. Cousot. Semantic foundations of program analysis, invited chapter. In S.S. Muchnick and N.D. Jones, editors, *Program Flow Analysis: Theory and Applications*, chapter 10, pages 303–342. Prentice-Hall, Inc., Englewood Cliffs, New Jersey, United States, 1981.
- [Cou97a] P. Cousot. Abstract interpretation based static analysis parameterized by semantics, invited paper. In P. Van Hentenryck, editor, *Proceedings of the Fourth International Symposium on Static Analysis, SAS '97*, Paris, France, Lecture Notes in Computer Science 1302, pages 388–394. Springer, Berlin, Germany, 8–10 september 1997.

- [Cou97b] P. Cousot. Types as abstract interpretations, invited paper. In *Conference Record of the Twentyfourth Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages*, pages 316–331, Paris, France, January 1997. ACM Press, New York, New York, United States.
- [Cou99] P. Cousot. The calculational design of a generic abstract interpreter, invited chapter. In M. Broy and R. Steinbrüggen, editors, *Calculational System Design*, volume 173, pages 421–505. NATO Science Series, Series F: Computer and Systems Sciences. IOS Press, Amsterdam, The Netherlands, 1999.
- [Cou00] P. Cousot. Partial completeness of abstract fixpoint checking, invited paper. In B.Y. Choueiry and T. Walsh, editors, *Proceedings of the Fourth International Symposium on Abstraction, Reformulation and Approximation, SARA '2000*, Horseshoe Bay, Texas, United States, Lecture Notes in Artificial Intelligence 1864, pages 1–25. Springer, Berlin, Germany, 26–29 July 2000.
- [Cou02] P. Cousot. Constructive design of a hierarchy of semantics of a transition system by abstract interpretation. *Theoretical Computer Science*, 277(1–2):47–103, 2002.
- [Cou03] P. Cousot. Verification by abstract interpretation, invited chapter. In N. Dershowitz, editor, *Proceedings of the International Symposium on Verification – Theory & Practice – Honoring Zohar Manna's 64th Birthday*, pages 243–268. Lecture Notes in Computer Science 2772, Springer, Berlin, Germany, Taormina, Italy, 29 June – 4 July 2003.
- [Cou08] R. Cousot. Abstract interpretation of non-monotone bi-inductive semantic definitions, invited talk. In F. Logozzo, D. Peled, and L.D. Zuck, editors, *Proceedings of the Ninth International Conference on Verification, Model Checking and Abstract Interpretation (VMCAI 2008)*, pages 1–3, San Francisco, California, United States, 7–9 January 2008. Lecture Notes in Computer Science 4905, Springer, Berlin, Germany.
- [CP98] W. Charatonik and A. Podelski. Directional type inference for logic programs. In G. Levi, editor, *Proceedings of the Fifth International Symposium on Static Analysis, SAS '98*, Pisa, Italy, 14–16 september 1998, Lecture Notes in Computer Science 1503, pages 278–294. Springer, Berlin, Germany, 1998.
- [CPHB06] J. Correas, G. Puebla, M.V. Hermenegildo, and F. Bueno. Experiments in context-sensitive analysis of modular programs. In P.M. Hill, editor, *Proceedings of the Fifteenth International Symposium on Logic Program Synthesis and Transformation, LOPSTR '2005*, London, United Kingdom, 7–9 september 2005, Lecture Notes in Computer Science 3901, pages 163–178. Springer, Berlin, Germany, 2006.
- [CRvH94] B. Le Charlier, S. Rossi, and P. van Hentenryck. An abstract interpretation framework which accurately handles Prolog search-rule and the cut. In M. Bruynooghe, editor, *Proceedings of the International Symposium on Logic Programming, ILPS '1994*, Ithaca, New York, United States, pages 157–171. MIT Press, Cambridge, Massachusetts, United States, 13–17 November 1994.
- [CS98] M. Codish and H. Søndergaard. The boolean logic of set sharing analysis. In C. Palamidessi, H. Glaser, and K. Meinke, editors, *Proceedings of the Tenth International Symposium on Programming Language Implementation and Logic Programming, PLILP '98*, pages 89–101. Springer, Berlin, Germany, Pisa, Italy, 16–18 september 1998, Lecture Notes in Computer Science 1490, 1998.

- [CSS99] M. Codish, H. Søndergaard, and P.J. Stuckey. Sharing and groundness dependencies in logic programs. *ACM Transactions on Programming Languages and Systems*, 21(5):948–976, september 1999.
- [CT99] M. Codish and C. Taboch. A semantic basis for the termination analysis of logic programs goal. *Journal of Logic Programming*, 41(1):103–123, 1999.
- [CU96] K. Cho and . Ueda. Diagnosing non-well-moded concurrent logic programs. In M.J. Maher, editor, *Proceedings of the Joint International Conference and Symposium on Logic Programming, JICSLP '96*, Bonn, Germany, pages 215–229. MIT Press, Cambridge, Massachusetts, United States, 2–6 september 1996.
- [CvH92] B. Le Charlier and P. van Hentenryck. On the design of generic abstract interpretation frameworks. In M. Billaud, P. Castéran, M.-M. Corsini, K. Musumbu, and A. Rauzy, editors, *Proceedings of the Second International Workshop on Static Analysis, WSA '92, Bordeaux, France. BIGRE*, volume 81–82, pages 229–246. IRISA, Rennes, France, 23–25 september 1992.
- [Dan07] V. Danos. Abstract views on biological signaling. In *Mathematical Foundations of Programming Semantics, Twentythird Annual Conference (MFPS XXIII)*, 2007.
- [Dav93] K. Davis. Higher order binding time analysis. In *Proceedings of the ACM Symposium on Partial Evaluation and Semantics-Based Program Manipulation, PEPM '93*, Copenhagen, Denmark, 14–16 June 1993, pages 80–87. ACM Press, New York, New York, United States, 1993.
- [DBLC90] P. De Boeck and B. Le Charlier. Static type analysis of Prolog procedures for ensuring correctness. In P. Deransart and J. Małuszyński, editors, *Proceedings of the Second International Workshop Programming Language Implementation and Logic Programming, PLILP '90*, pages 222–237. Springer, Berlin, Germany, Linköping, Sweden, Lecture Notes in Computer Science 456, 20–22 August 1990.
- [DD77] D.E. Denning and P.J. Denning. Certification of programs for secure information flow. *Communications of the Association for Computing Machinery*, 20(7):504–513, July 1977.
- [DD02] S. Das and D.L. Dill. Counter-example based predicate discovery in predicate abstraction. In M. Aagaard and J.W. O’Leary, editors, *Proceedings of the Fourth International Conference on Formal Methods in Computer-Aided Design, FMCAD 2002*, Portland, Oregon, United States, Lecture Notes in Computer Science 1633, pages 19–32. Springer, Berlin, Germany, November 2002.
- [DDC95] J. Dean, Grove D., and G. Chambers. Optimization of object-oriented programs using static class hierarchy analysis. In W.G. Olthoff, editor, *Proceedings of the Ninth European Conference on Object-Oriented Programming, ECOOP '95*, Århus, Denmark, 7–11 August 1995, Lecture Notes in Computer Science 952, pages 77–101. Springer, Berlin, Germany, 1995.
- [DDP99] S. Das, D.L. Dill, and S. Park. Experience with predicate abstraction. In N. Halbwachs and D. Peled, editors, *Proceedings of the Eleventh International Conference on Computer Aided Verification, CAV '99*, Trento, Italy, Lecture Notes in Computer Science 1633, pages 160–171. Springer, Berlin, Germany, 6–10 July 1999.

- [Deb87] S.K. Debray. Flow analysis of a simple class of dynamic logic programs. In *Proceedings of the 1987 International Symposium on Logic Programming*, San Francisco, California, pages 307–316. IEEE Computer Society Press, Los Alamitos, California, United States, 31 August – 4 september 1987.
- [Deb88a] S.K. Debray. Efficient dataflow analysis of logic programs. In *Conference Record of the Fifteenth Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages*, pages 260–273, San Diego, California, 1988. ACM Press, New York, New York, United States.
- [Deb88b] S.K. Debray. Static analysis of parallel logic programs. In R. Kowalski and K. Bowen, editors, *Proceedings of the Fifth International Conference and Symposium on Logic Programming, Volume 1*, Seattle, Washington, United States, pages 711–732. MIT Press, Cambridge, Massachusetts, United States, 15–19 August 1988.
- [Deb89a] S.K. Debray. Flow analysis of dynamic logic programs. *Journal of Logic Programming*, 7:149–176, 1989.
- [Deb89b] S.K. Debray. Static inference of modes and data dependencies in logic programs. *ACM Transactions on Programming Languages and Systems*, 11(3):418–450, 1989.
- [Deb91] S.K. Debray. The mythical free lunch: Notes on the complexity/precision tradeoff in dataflow analysis of logic programs. In R. Giacobazzi, editor, *Proceedings of the International Conference on Logic Programming, ICLP '91 Pre-Conference Workshop on Semantics-Based Analysis of Logic Programs*, INRIA, Rocquencourt, France. Dipartimento di Informatica, Università di Pisa, Italy, 24 June 1991.
- [Deb93] S.K. Debray. Static analysis of logic programs. In D. Miller, editor, *Proceedings of the International Symposium on Logic Programming, ILPS '1993*, Vancouver, British Columbia, Canada, pages 43–44. MIT Press, Cambridge, Massachusetts, United States, 1993.
- [Deb94] S.K. Debray. Formal bases for dataflow analysis of logic programs. In G. Levi, editor, *Advances in Logic Programming Theory*, International Schools for Computer Scientists, section 3, pages 115–182. Clarendon Press, Oxford, United Kingdom, 1994.
- [Deb95] S.K. Debray. On the complexity of dataflow analysis of logic programs. *ACM Transactions on Programming Languages and Systems*, 17(2):331–365, March 1995.
- [Den76] D.E. Denning. A lattice model of secure information flow. *Communications of the Association for Computing Machinery*, 19(5):236–243, May 1976.
- [Der04] N. Dershowitz. Termination by abstraction. In *Proceedings of the Twentieth International Conference on Logic Programming*, St. Malo, France, Lecture Notes in Computer Science. Springer, Berlin, Germany, september 2004.
- [Deu90] A. Deutsch. On determining lifetime and aliasing of dynamically allocated data in higher-order functional specifications. In *Conference Record of the Seventeenth Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages*, pages 157–168, San Fransisco, California, January 1990. ACM Press, New York, New York, United States.

- [Deu91] A. Deutsch. An operational model of strictness properties and its abstraction. In R. Heldal, C.K. Holst, and P. Wadler, editors, *Proceedings of the 1991 Glasgow University Functional Programming Workshop*, Workshops in Computing, pages 82–99, Portree, Isle of Skye, Scotland, August 1991. Springer, Berlin, Germany.
- [Deu92a] A. Deutsch. *Modèles opérationnels de langages de programmation et représentations de relations sur des langages rationnels avec application à la détermination statique de propriétés de partages dynamiques de données*. Thèse de doctorat, Université de Paris VI, Paris, France, 1 April 1992.
- [Deu92b] A. Deutsch. A storeless model of aliasing and its abstraction using finite representations of right-regular equivalence relations. In *Proceedings of the 1992 International Conference on Computer Languages*, Oakland, California, pages 2–13. IEEE Computer Society Press, Los Alamitos, California, United States, 20–23 April 1992.
- [Deu93] A. Deutsch. A parametric program analysis framework for analysing values of structured objects. Unpublished manuscript, 1993.
- [Deu94] A. Deutsch. Interprocedural may-alias analysis for pointers: Beyond  $k$ -limiting. In *Proceedings of the ACM SIGPLAN '94 Conference on Programming Language Design and Implementation (PLDI)*. ACM SIGPLAN Notices 29(6), pages 230–241, Orlando, Florida, United States, 20–24 June 1994. ACM Press, New York, New York, United States.
- [Deu95] A. Deutsch. Semantic models and abstract interpretation techniques for inductive data structures and pointers, , invited paper. In *Proceedings of the ACM Symposium on Partial Evaluation and Semantics-Based Program Manipulation, PEPM '95*, pages 226–229, La Jolla, California, 21–23 June 1995. ACM Press, New York, New York, United States.
- [Deu97] A. Deutsch. On the complexity of escape analysis. In *Conference Record of the Twentyfourth Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages*, pages 358–371, Paris, France, January 1997. ACM Press, New York, New York, United States.
- [DFF<sup>+</sup>07] V. Danos, J. Feret, W. Fontana, R. Harmer, and invited lecture J. Krivine. Rule-based modelling of cellular signalling. In L. Caires and V.-T. Vasconcelo, editors, *Proceedings of the Eighteenth International Conference on Concurrency Theory, CONCUR '07*, number 4703 in Lecture Notes in Computer Science, pages 17–41. Springer, Berlin, Germany, Lisbon, Portugal, 3–8 september 2007.
- [DFFK07] V. Danos, J. Feret, W. Fontana, and J. Krivine. Scalable simulation of cellular signaling networks. In Zhong Shao, editor, *Proceedings of the Fifth Asian Symposium on Programming Languages and Systems, APLAS '2007*, pages 139–157, , Republic of Singapore, 29 November –1 December 2007. Lecture Notes in Computer Science 4807, Springer, Berlin, Germany.
- [DHM95] D. Dussart, F. Henglein, and C. Mossin. Polymorphic recursion and subtype qualifications: Polymorphic binding-time analysis in polynomial time. In A. Mycroft, editor, *Proceedings of the Second International Symposium on Static Analysis, SAS '95*, Glasgow, United Kingdom, 25–27 september 1995, Lecture Notes in Computer Science 983, pages 118–135. Springer, Berlin, Germany, 1995.

- [Dij76] E.W. Dijkstra. Guarded commands, non-determinacy and a calculus for the derivation of programs. In F.L. Bauer and K. Samelson, editors, *Language Hierarchies and Interfaces, International Summer School, Marktoberdorf, Germany, 23 July – 2 August 1975*, volume 46 of *Lecture Notes in Computer Science*, pages 111–124. Springer, Berlin, Germany, 1976.
- [DJBC93] V. Dumortier, G. Janssens, M. Bruynooghe, and M. Codish. Freeness analysis in the presence of numerical constraints. In D.S. Warren, editor, *Proceedings of the Tenth International Conference on Logic Programming, ICLP '93*, Budapest, Hungary, pages 100–115. MIT Press, Cambridge, Massachusetts, United States, 21–25 June 1993.
- [DL90] S.K. Debray and N.-W. Lin. Static estimation of query sizes in horn programs. In S. Abiteboul and P.C. Kanellakis, editors, *Proceedings of the Third International Conference on Database Theory*, Paris, France, Lecture Notes in Computer Science 470, pages 515–528. Springer, Berlin, Germany, 12–1 December 1990.
- [DL91] S.K. Debray and N.-W. Lin. Automatic complexity analysis of logic programs. In K. Furukawa, editor, *Proceedings of the Eight International Conference on Logic Programming, ICLP '91*, Paris, France, pages 599–613. MIT Press, Cambridge, Massachusetts, United States, 24–28 June 1991.
- [DL93] S.K. Debray and N.-W. Lin. Cost analysis of logic programs. *ACM Transactions on Programming Languages and Systems*, 15(5):826–875, 1993.
- [dlBH92] M.J. García de la Banda and M.V. Hermenegildo. A practical application of sharing and freeness inference. In M. Billaud, P. Castéran, M.-M. Corsini, K. Musumbu, and A. Rauzy, editors, *Proceedings of the Second International Workshop on Static Analysis, WSA '92, Bordeaux, France. BIGRE*, volume 81–82, pages 118–125. IRISA, Rennes, France, 23–25 september 1992.
- [dlBHB<sup>+</sup>96] M.J. García de la Banda, M.V. Hermenegildo, M. Bruynooghe, V. Dumortier, G. Janssens, and W. Simoens. Global analysis of constraint logic programs. *ACM Transactions on Programming Languages and Systems*, 18(5):564–614, 1996.
- [dlBMS95] M.J. García de la Banda, K. Marriott, and P.J. Stuckey. Efficient analysis of logic programs with dynamic scheduling. In J.W. Lloyd, editor, *Proceedings of the International Symposium on Logic Programming, ILPS '1995*, Portland, Oregon, United States, pages 417–431. MIT Press, Cambridge, Massachusetts, United States, 4–7 December 1995.
- [dlC91] E. Villemonte de la Clergerie. A tool for abstract interpretation: Dynamic programming. *Actes JTASPEFL '91, Bordeaux, France. BIGRE*, 74:151–156, October 1991.
- [DLFR01] M. Das, B. Liblit, M. Fähndrich, and J. Rehof. Estimating the impact of scalable pointer analysis on optimization. In P. Cousot, editor, *Proceedings of the Eight International Symposium on Static Analysis, SAS '01*, Paris, France, Lecture Notes in Computer Science 2126, pages 259–277. Springer, Berlin, Germany, 16–18 July 2001.
- [DLGH97] S.K. Debray, P. López-García, and M.V. Hermenegildo. Non-failure analysis for logic programs. In J. Maluszynski, editor, *Proceedings of the Fifteenth International Conference on Logic Programming, ICLP '97*, Port Jefferson, Long Island, N.Y., pages 48–62. MIT Press, Cambridge, Massachusetts, United States, 13–16 October 1997.

- [DLGHL94] S.K. Debray, P. López-García, M.V. Hermenegildo, and N.-W. Lin. Estimating the computational cost of logic programs. In B. Le Charlier, editor, *Proceedings of the First International Symposium on Static Analysis, SAS'94*, Namur, Belgium, 20–22 september 1994, Lecture Notes in Computer Science 864, pages 255–265. Springer, Berlin, Germany, 1994.
- [DLGHL97] S.K. Debray, P. López-García, M.V. Hermenegildo, and N.-W. Lin. Lower bound cost estimation for logic programs. In J. Małuszyński, editor, *Proceedings of the International Symposium on Logic Programming, ILPS'1997*, Port Jefferson, Long Island, New York, United States, pages 291–305. MIT Press, Cambridge, Massachusetts, United States, 13–16 October 1997.
- [DLH90] S.K. Debray, N.-W. Lin, and M. Hermenegildo. Task granularity analysis in logic programs. In *Proceedings of the ACM SIGPLAN'90 Conference on Programming Language Design and Implementation (PLDI)*. ACM SIGPLAN Notices 25(6), pages 174–188, White Plains, New York, United States, 20–22 June 1990.
- [DP97] S.K. Debray and T.A. Proebsting. Interprocedural control flow analysis of first-order programs with tail-call optimization. *ACM Transactions on Programming Languages and Systems*, 19(4):568–585, July 1997.
- [DPHW05] A. Di Pierro, C. Hankin, and H. Wiklicky. Probabilistic lambda calculus and quantitative program analysis. *Journal of Logic and Computation*, 15(2):159–179, 2005.
- [DPW00] A. Di Pierro and H. Wiklicky. Concurrent constraint programming: Towards probabilistic abstract interpretation. In M. Gabbrielli and F. Pfenning, editors, *Proceedings of the Second ACM SIGPLAN International Conference Principles and Practice of Declarative Programming, PPDP'2000*, Montreal, Canada, pages 127–138. ACM Press, New York, New York, United States, 20–23 september 2000.
- [DR94] S.K. Debray and R. Ramakrishnan. Abstract interpretation of logic programs using magic transformations. *Journal of Logic Programming*, 18(2):149–176, February 1994.
- [DRS00] N. Dor, M. Rodeh, and M. Sagiv. Checking cleanliness in linked lists. In J. Palsberg, editor, *Proceedings of the Seventh International Symposium on Static Analysis, SAS'2000*, Santa Barbara, California, United States, Lecture Notes in Computer Science 1824, pages 115–134. Springer, Berlin, Germany, 29 June – 1 July 2000.
- [DRW96] S. Dawson, C.R. Ramakrishnan, and D.S. Warren. Practical program analysis using general purpose logic programming systems - a case study. In *Proceedings of the ACM SIGPLAN'96 Conference on Programming Language Design and Implementation (PLDI)*. ACM SIGPLAN Notices 31(5), pages 117–126, Philadelphia, Pennsylvania, United States, 21–24 May 1996.
- [DS92] S. Decorte and D. De Schrey. Termination analysis: Some practical properties of the norm and level mapping space. In J. Jaffar, editor, *Joint International Conference and Symposium on Logic Programming, JICSLP'98, Workshop on Concurrent and Parallel Implementations*, Manchester, United Kingdom, pages 235–249. MIT Press, Cambridge, Massachusetts, United States, 15–19 June 1992.
- [DS07] D. Delmas and J. Souyris. ASTRÉE: from research to industry. In G. Filé and H. Riis-Nielson, editors, *Proceedings of the Fourteenth International Symposium on Static Analysis, SAS'07*, Kongens Lyngby, Denmark, Lecture Notes in Computer Science 4634, pages 437–451. Springer, Berlin, Germany, 22–24 August 2007.

- [DSB88] D. De Schreye and M. Bruynooghe. An application of abstract interpretation in source level program transformation. In P. Deransart, B. Lorho, and J. Małuszyński, editors, *Proceedings of the First International Workshop Programming Language Implementation and Logic Programming, PLILP '88*, pages 35–57. Springer, Berlin, Germany, Orléans, France, Lecture Notes in Computer Science 348, 16–18 May 1988.
- [DSV99] S. Decorte, D. De Schreye, and H. Vandecasteele. Constraint-based termination analysis of logic programs. *ACM Transactions on Programming Languages and Systems*, 21(6):1137–1195, November 1999.
- [DW86a] S.K. Debray and D.S. Warren. Automatic mode inferencing for Prolog programs. In *Proceedings of the 1986 International Symposium on Logic Programming*, Salt Lake City, Utah, pages 78–88. IEEE Computer Society Press, Los Alamitos, California, United States, september 1986.
- [DW86b] S.K. Debray and D.S. Warren. Detection and optimization of functional computations in Prolog. In E. Shapiro, editor, *Proceedings of the Third International Conference on Logic Programming*, London, Great Britain, Lecture Notes in Computer Science 225, pages 490–504. Springer, Berlin, Germany, 1986.
- [DW88] S.K. Debray and D.S. Warren. Automatic mode inference of logic programs. *Journal of Logic Programming*, 5(3):207–229, 1988.
- [DW89] S.K. Debray and D.S. Warren. Functional computations in logic programs. *ACM Transactions on Programming Languages and Systems*, 11(3):451–481, 1989.
- [EGH94] M. Emami, R. Ghiya, and L.J. Hendren. Context-sensitive interprocedural points-to analysis in the presence of function pointers. In *Proceedings of the ACM SIGPLAN '93 Conference on Programming Language Design and Implementation (PLDI)*. ACM SIGPLAN Notices 28(6), pages 242–256, Orlando, Florida, United States, June 1994. ACM Press, New York, New York, United States.
- [ELCRVH92] V. Englebert, B. Le Charlier, D. Roland, and P. Van Hentenryck. Generic abstract interpretation algorithms for Prolog: Two optimization techniques and their experimental evaluation. In M. Bruynooghe and M. Wirsing, editors, *Proceedings of the Fourth International Symposium on Programming Language Implementation and Logic Programming, PLILP '92*, Leuven, Belgium, 26–28 August 1992, Lecture Notes in Computer Science 631, pages 310–325. Springer, Berlin, Germany, 1992.
- [ELCRVH93] V. Englebert, B. Le Charlier, D. Roland, and P. Van Hentenryck. Generic abstract interpretation algorithms for Prolog: Two optimization techniques and their experimental evaluation. *Software – Practice and Experience*, 23(4):419–459, 1993.
- [EM91] R. Everts and E. Motta. The abstract interpretation of hybrid rule/frame-based systems. In E. Ardizzone, S. Gaglio, and F. Sorbello, editors, *Trends in Artificial Intelligence, Proceedings of the Second Congress of the Italian Association for Artificial Intelligence AI\*AI*, Palermo, Italy, 29–31 October 1991, Lecture Notes in Computer Science 549, pages 147–156. Springer, Berlin, Germany, 1991.

- [Fec96] C. Fecht. An efficient and precise sharing domain for logic programs. In H. Kuchen and D.S. Swierstra, editors, *Proceedings of the Eight International Symposium on Programming Language Implementation and Logic Programming, PLILP '96*, pages 469–470. Springer, Berlin, Germany, Aachen, Germany, 24–27 september 1996, Lecture Notes in Computer Science 1140, 1996.
- [Fer93] J.-C. Fernandez. Abstract interpretation and verification of reactive systems. In P. Cousot, P. Falaschi, G. Filé, and A. Rauzy, editors, *Proceedings of the Third International Workshop on Static Analysis, WSA '93*, Padova, Italy, Lecture Notes in Computer Science 724, pages 60–71. Springer, Berlin, Germany, 22–24 september 1993.
- [Fer00a] J. Feret. Confidentiality analysis of mobile systems. In J. Palsberg, editor, *Proceedings of the Seventh International Symposium on Static Analysis, SAS '2000*, Santa Barbara, California, United States, Lecture Notes in Computer Science 1824, pages 135–154. Springer, Berlin, Germany, 29 June – 1 July 2000.
- [Fer00b] J. Feret. Occurrence counting analysis for the  $\pi$ -calculus. In P. Cousot, É. Goubault, J. Gunawardena, M. Herlihy, M. Raussen, and V. Sassone, editors, *Preliminary Proceedings of the Workshop on Geometry and Topology in Concurrency Theory, GETCO '00*, pages 99–116, State College, United States, 21 August 2000. BRICS Notes Series NS-00-3.
- [Fer01a] J. Feret. Abstract interpretation-based static analysis of mobile ambients. In P. Cousot, editor, *Proceedings of the Eighth International Symposium on Static Analysis, SAS '01*, Paris, France, Lecture Notes in Computer Science 2126, pages 413–431. Springer, Berlin, Germany, 16–18 July 2001.
- [Fer01b] J. Feret. Occurrence counting analysis for the  $\pi$ -calculus. *Electronic Notes in Theoretical Computer Science*, 39, 2001. <http://www.elsevier.nl/locate/entcs/volume39.html>.
- [Fer02] J. Feret. Dependency analysis of mobile systems. In D. Le Métayer, editor, *Proceedings of the Eleventh European Symposium on Programming Languages and Systems, ESOP '2002, Grenoble, France*, volume 2305 of *Lecture Notes in Computer Science*, pages 314–330. Springer, Berlin, Germany, 6–14 April 2002.
- [Fer04] J. Feret. Static analysis of digital filters. In D. Schmidt, editor, *Proceedings of the Thirteenth European Symposium on Programming Languages and Systems, ESOP '2004, Barcelona, Spain*, volume 2986 of *Lecture Notes in Computer Science*, pages 33–48. Springer, Berlin, Germany, March 27 – April 4, 2004.
- [Fer05a] J. Feret. Abstract interpretation of mobile systems. *Journal of Logic and Algebraic Programming*, 63(1):59–130, 2005. special issue on pi-Calculus.
- [Fer05b] J. Feret. *Analysis of mobile systems by abstract interpretation*. Thèse de doctorat en informatique, École polytechnique, Palaiseau, France, 25 February 2005.
- [Fer05c] J. Feret. The arithmetic-geometric progression abstract domain. In R. Cousot, editor, *Proceedings of the Sixth International Conference on Verification, Model Checking and Abstract Interpretation (VMCAI 2005)*, pages 42–58, Paris, France, 17–19 January 2005. Lecture Notes in Computer Science 3385, Springer, Berlin, Germany.

- [Fer05d] J. Feret. Numerical abstract domains for digital filters. In *First International Workshop on Numerical & Symbolic Abstract Domains, NSAD '05*, Maison Des Polytechniciens, Paris, France, 21 January 2005.
- [FF99] C. Flanagan and M. Felleisen. Componential set-based analysis. *ACM Transactions on Programming Languages and Systems*, 21(2):370–416, February 1999.
- [FG98] F. Fages and R. Gori. Analysis of normal logic programs. In G. Levi, editor, *Proceedings of the Fifth International Symposium on Static Analysis, SAS '98*, Pisa, Italy, 14–16 september 1998, Lecture Notes in Computer Science 1503, pages 200–214. Springer, Berlin, Germany, 1998.
- [FGL96] A. Fantechi, S. Gnesi, and D. Latella. Diego: Towards automatic temporal logic verification of value passing process algebra using abstract interpretation. In U. Montanari and V. Sassone, editors, *Proceedings of the Seventh International Conference on Concurrency Theory, CONCUR '96*, number 1119 in Lecture Notes in Computer Science, pages 563–578. Springer, Berlin, Germany, Pisa, Italy, 26–29 August 1996.
- [FGLM96] P. Fradet, R. Gaugne, and D. Le Métayer. Static detection of pointer errors: An axiomatization and a checking algorithm. In H. Riis Nielson, editor, *Proceedings of the Sixth European Symposium on Programming Languages and Systems, ESOP '96*, Linköping, Sweden, Lecture Notes in Computer Science 1058, pages 125–140. Springer, Berlin, Germany, 22–26 April 1996.
- [FGR96] G. Filè, R. Giacobazzi, and F. Ranzato. A unifying view on abstract domain design. *ACM Computing Surveys*, 28(2):333–336, 1996.
- [FHL<sup>+</sup>01] C. Ferdinand, R. Heckmann, M. Langenbach, F. Martin, M. Schmidt, H. Theiling, S. Thesing, and R. Wilhelm. Reliable and precise WCET determination for a real-life processor. In T.A. Henzinger and C.M. Kirsch, editors, *Proceedings of the First International Workshop on Embedded Software, EMSOFT '2001*, volume 2211 of *Lecture Notes in Computer Science*, pages 469–485. Springer, Berlin, Germany, 2001.
- [FWH04] C. Ferdinand, R. Heckmann, and R. Wilhelm. Analyzing the worst-case execution time by abstract interpretation of executable code. In M. Broy, I.H. Krüger, and M. Meisinger, editors, *Automotive Software – Connected Services in Mobile Networks, First Automotive Software Workshop, ASWSD 2004*, volume 4147 of *LNCS*, pages 1–14. Springer, Berlin, Germany, 10–12 January 2004.
- [FMWA99a] C. Ferdinand, F. Martin, R. Wilhelm, and M. Alt. Cache behavior prediction by abstract interpretation. *Science of Computer Programming*, 35(1):163–189, 1999.
- [FMWA99b] C. Ferdinand, F. Martin, R. Wilhelm, and M. Alt. Cache behavior prediction by abstract interpretation. *Science of Computer Programming, Special Issue on SAS'96*, 35(1):163–189, September 1999.
- [FQ02] C. Flanagan and S. Qadeer. Predicate abstraction for software verification. In *Conference Record of the Twentyninth Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages*, pages 191–202, Portland, Oregon, January 2002. ACM Press, New York, New York, United States.

- [FR93] G. Filé and S. Rossi. Static analysis of Prolog with cut. In A. Voronkov, editor, *Proceedings of the Fourth International Conference on Logic Programming and Automated Reasoning, LPAR '93*, pages 134–145, St. Petersburg, Russia, Lecture Notes in Computer Science 698, 13–20 July 1993. Springer, Berlin, Germany.
- [FR94] G. Filé and F. Ranzato. Improving abstract interpretations by systematic lifting to the powerset. In M. Bruynooghe, editor, *Proceedings of the International Symposium on Logic Programming, ILPS '1994*, Ithaca, New York, United States, pages 655–669. MIT Press, Cambridge, Massachusetts, United States, 13–17 November 1994.
- [FR96] G. Filé and F. Ranzato. Complementation of abstract domains made easy. In M.J. Maher, editor, *Proceedings of the Joint International Conference and Symposium on Logic Programming, JICSLP '96*, Bonn, Germany, pages 348–362. MIT Press, Cambridge, Massachusetts, United States, 2–6 september 1996.
- [FR99] G. Filé and F. Ranzato. The powerset operator on abstract interpretations. *Theoretical Computer Science*, 222(1-2):77–111, July 1999.
- [FS91] G. Filé and P. Sottero. Abstract interpretation for type checking. In J. Małuszyński and M. Wirsing, editors, *Proceedings of the Third International Symposium on Programming Language Implementation and Logic Programming, PLILP '91*, pages 311–322, Passau, Germany, Lecture Notes in Computer Science 528, 26–28 August 1991. Springer, Berlin, Germany.
- [FS06] F. Fages and . Soliman. Type inference in systems biology. In C. Priami, editor, *Computational Methods in Systems Biology*, Lecture Notes in Bioinformatics 4210, pages 48–62. Springer, Berlin, Germany, 17–18 October 2006.
- [FW99] C. Ferdinand and R. Wilhelm. Efficient and precise cache behavior prediction for real-time systems. *Real-Time Systems*, 17(2–3):131–181, 1999.
- [Gal92] J.P. Gallagher. Static analysis for logic program specification. In M. Billaud, P. Castérán, M.-M. Corsini, K. Musumbu, and A. Rauzy, editors, *Proceedings of the Second International Workshop on Static Analysis, WSA '92, Bordeaux, France. BIGRE*, volume 81–82, pages 285–294. IRISA, Rennes, France, 23–25 september 1992.
- [GBS95] J.P. Gallagher, D. Boulanger, and H. Saglam. Practical model-based static analysis for definite logic programs. In J.W. Lloyd, editor, *Proceedings of the International Symposium on Logic Programming, ILPS '1995*, Portland, Oregon, United States, pages 351–365. MIT Press, Cambridge, Massachusetts, United States, 4–7 December 1995.
- [GC01] S. Genaim and M. Codish. Inferring termination conditions for logic programs using backwards analysis. In R. Nieuwenhuis and A. Voronkov, editors, *Proceedings of the Eight International Conference on Logic Programming and Automated Reasoning, LPAR '01*, pages 685–694, Havana, Cuba, Lecture Notes in Computer Science 2250, 3–8 December 2001. Springer, Berlin, Germany.
- [GCS88a] J. Gallagher, M. Codish, and E. Shapiro. Specialization of Prolog and FCP programs by abstract interpretation. *New Generation Computing*, 6:159–186, 1988.
- [GCS88b] J. Gallagher, M. Codish, and E. Shapiro. Specialization of Prolog and FCP programs using abstract interpretation. *New Generation Computing*, 6(3):159–186, 1988.

- [GDL93] R. Giacobazzi, S. Debray, and G. Levi. Joining abstract and concrete computations in constraint logic programming. In M. Nivat, C. Rattray, T. Rus, and G. Scollo, editors, *Proceedings of the Third International Conference on Algebraic Methodology and Software Technology, AMAST '93*, London, Great Britain, Workshops in Computing, pages 109–126. Springer, Berlin, Germany, 1993.
- [GDL95] R. Giacobazzi, S.K. Debray, and G. Levi. Generalized semantics and abstract interpretation for constraint logic programs. *Journal of Logic Programming*, pages 191–247, 1995.
- [GdlBBH96] M. García de la Banda, F. Bueno, and M. Hermenegildo. Towards independent and-parallelism in CLP<sup>\*</sup>. In H. Kuchen and D.S. Swierstra, editors, *Proceedings of the Eight International Symposium on Programming Language Implementation and Logic Programming, PLILP '96*, pages 77–91. Springer, Berlin, Germany, Aachen, Germany, 24–27 september 1996, Lecture Notes in Computer Science 1140, 1996.
- [GdW94] J.P. Gallagher and D.A. de Waal. Fast and precise regular approximations of logic programs. In P. van Hentenryck, editor, *Proceedings of the Eleventh International Conference on Logic Programming, ICLP '94*, Santa Marherita Ligure, Italy, pages 599–613. MIT Press, Cambridge, Massachusetts, United States, 13–18 June 1994.
- [Get94] T.W. Getzinher. The costs and benefits of abstract interpretation-driven Prolog optimization. In B. Le Charlier, editor, *Proceedings of the First International Symposium on Static Analysis, SAS '94*, Namur, Belgium, 20–22 september 1994, Lecture Notes in Computer Science 864, pages 1–25. Springer, Berlin, Germany, 1994.
- [GG94] M. Gabbielli and R. Giacobazzi. Goal independency and call patterns in the analysis of logic programs. In *Proceedings of the Ninth ACM Symposium on Applied Computing*, pages 394–399, Phoenix, Arizona, March 1994. ACM Press, New York, New York, United States.
- [GH93] É. Goubault and C. Hankin. A lattice for the abstract interpretation of term graph rewriting systems. In R. Sleep, R. Plasmeijer, and van M. Eekelen, editors, *Term Graph Rewriting: Theory and Practice*, chapter 10, pages 131–140. John Wiley & Sons, New York, New York, United States, 1993.
- [GH94] D. Cabeza Gras and M.V. Hermenegildo. Extracting non-strict independent and-parallelism using sharing and freeness information. In B. Le Charlier, editor, *Proceedings of the First International Symposium on Static Analysis, SAS '94*, Namur, Belgium, 20–22 september 1994, Lecture Notes in Computer Science 864, pages 297–313. Springer, Berlin, Germany, 1994.
- [GH96a] R. Ghiya and L. Hendren. Is it a tree, a dag, or a cyclic graph? a shape analysis for heap-directed pointers in C. In *Conference Record of the Twentythird Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages*, pages 1–15, St. Petersburg Beach, Florida, 1996. ACM Press, New York, New York, United States.
- [GH96b] R. Ghiya and L.J. Hendren. Is it a tree, a DAG, or a cyclic graph? a shape analysis for heap-directed pointers in C. In *Conference Record of the Twentythird Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages*, pages 1–15, St. Petersburg Beach, Florida, 1996. ACM Press, New York, New York, United States.

- [GH98] R. Ghiya and L.J. Hendren. Putting pointer analysis to work. In *Conference Record of the Twentyfifth Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages*, pages 121–133, San Diego, California, United States, 19–21 January 1998. ACM Press, New York, New York, United States.
- [GH07a] Orna Grumberg and Michael Huth, editors. *Causal Dataflow Analysis for Concurrent Programs*, volume 4424 of *Lecture Notes in Computer Science*, Braga, Portugal, 24 March – 1 April 2007. Springer, Berlin, Germany.
- [GH07b] Orna Grumberg and Michael Huth, editors. *Shape Analysis by Graph Decomposition*, volume 4424 of *Lecture Notes in Computer Science*, Braga, Portugal, 24 March – 1 April 2007. Springer, Berlin, Germany.
- [Gia93] R. Giacobazzi. *Semantic Aspects of Logic Program Analysis*. Tesi di dottorato, td-18/93, Dipartimento di Informatica, Università di Pisa, Italy, 1993.
- [Gia94] R. Giacobazzi. Abductive analysis of modular logic programs. In M. Bruynooghe, editor, *Proceedings of the International Symposium on Logic Programming, ILPS ’1994*, Ithaca, New York, United States, pages 377–391. MIT Press, Cambridge, Massachusetts, United States, 13–17 November 1994.
- [Gia96] R. Giacobazzi. “Optimal” collecting semantics for analysis in a hierarchy of logic program semantics. In C. Puech and R. Reischuk, editors, *Proceedings of the Annual Symposium on Theoretical Aspects of Computer Science, STACS ’96*, Lecture Notes in Computer Science 1046, pages 503–514. Springer, Berlin, Germany, 1996.
- [Gia98] R. Giacobazzi. A tutorial on domain theory in abstract interpretation. In G. Levi, editor, *Proceedings of the Fifth International Symposium on Static Analysis, SAS ’98*, Pisa, Italy, 14–16 september 1998, Lecture Notes in Computer Science 1503, pages 349–350. Springer, Berlin, Germany, 1998.
- [GL92] F. Giannotti and D. Latella. Using abstract interpretation for gate splitting in LOTOS specifications. In M. Billaud, P. Castéran, M.-M. Corsini, K. Musumbu, and A. Rauzy, editors, *Proceedings of the Second International Workshop on Static Analysis, WSA ’92, Bordeaux, France. BIGRE*, volume 81–82, pages 194–204. IRISA, Rennes, France, 23–25 september 1992.
- [GL93a] F. Giannotti and D. Latella. Gate splitting in LOTOS specifications using abstract interpretation. In M.-C. Gaudel and J.-P. Jouannaud, editors, *Proceedings of the International Joint Conference on Theory and Practice of Software Development, TAPSOFT ’93, Orsay, France, Volume 2 CAAP/FASE*, Lecture Notes in Computer Science 668, pages 437–452. Springer, Berlin, Germany, 13–17 April 1993.
- [GL93b] S. Graf and C. Loiseaux. Property preserving abstractions under parallel composition. In M.-C. Gaudel and J.-P. Jouannaud, editors, *Proceedings of the Joint Conference on Theory and Practice of Software Development, TAPSOFT ’93, Orsay, France*, Lecture Notes in Computer Science 668, pages 644–657. Springer, Berlin, Germany, 13–17 April 1993.
- [GL93c] S. Graf and C. Loiseaux. A tool for symbolic program verification and abstraction. In C. Courcoubetis, editor, *Proceedings of the Fifth International Conference on Computer Aided Verification, CAV ’93, Elounda, Greece*, Lecture Notes in Computer Science 697, pages 71–84. Springer, Berlin, Germany, 28 June –1 July 1993.

- [GL94] F. Giannotti and D. Latella. Gate splitting in LOTOS specifications using abstract interpretation. *Science of Computer Programming*, 23((2-3)):127–149, 1994.
- [GL99] R. Gori and G. Levi. On the verification of finite failure. In G. Nadathur, editor, *Proceedings of the International Conference Principles and Practice of Declarative Programming, PPDP '99*, Paris, France, 29 september – 1 October 1999, Lecture Notes in Computer Science 1702, pages 311–327. Springer, Berlin, Germany, 1999.
- [GM03a] R. Giacobazzi and I. Mastroeni. Domain compression for complete abstractions. In L.D. Zuck, P.C. Attie, A. Cortesi, and S. Mukhopadhyay, editors, *Proceedings of the Fourth International Conference on Verification, Model Checking and Abstract Interpretation (VMCAI 2003)*, pages 146–160, Courant Institute, NYU, New York, N.Y., United States, 9–11 January 2003. Lecture Notes in Computer Science 2575, Springer, Berlin, Germany.
- [GM03b] R. Giacobazzi and I. Mastroeni. Non-standard semantics for program slicing. *Higher-Order and Symbolic Computation*, 16(4):297–339, 2003.
- [GM04] R. Giacobazzi and I. Mastroeni. Abstract non-interference: Parameterizing non-interference by abstract interpretation. In *Conference Record of the Thirtyfirst Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages*, pages 186–197, Venice, Italy, 2004. ACM Press, New York, New York, United States.
- [GM05] R. Giacobazzi and I. Mastroeni. Timed abstract non-interference. In B. Le Charlier, editor, *Proceedings of the Third International Conference on Formal Modelling and Analysis of Timed Systems, FORMATS '05*, Uppsala, Sweden, 26–28 september 2005, Lecture Notes in Computer Science 3829, pages 289–303. Springer, Berlin, Germany, 2005.
- [GMP91] M. Griffiths, P. Massotte, and C. Paul. Analyse et transformation de programmes Prolog en vue de leur parallélisation avec les prédicts parand et paror. *Actes JTASPEFL '91, Bordeaux, France. BIGRE*, 74:217–224, October 1991.
- [GPA06] J.P. Gallagher, G. Puebla, and E. Albert. Converting one type-based abstract domain to another. In P.M. Hill, editor, *Proceedings of the Fifteenth International Symposium on Logic Program Synthesis and Transformation, LOPSTR '2005*, London, United Kingdom, 7–9 september 2005, Lecture Notes in Computer Science 3901, pages 147–162. Springer, Berlin, Germany, 2006.
- [GPR96] R. Giacobazzi, C. Palamidessi, and F. Ranzato. Weak relative pseudo-complements of closure operators. *Algebra Universalis*, 36(3):405–412, 1996.
- [GQ01] R. Giacobazzi and E. Quintarelli. Incompleteness, counterexamples and refinements in abstract model-checking. In P. Cousot, editor, *Proceedings of the Eight International Symposium on Static Analysis, SAS '01*, Paris, France, Lecture Notes in Computer Science 2126, pages 356–373. Springer, Berlin, Germany, 16–18 July 2001.
- [GR90] R. Giacobazzi and L. Ricci. Pipeline optimizations and AND-parallelism by abstract interpretation. In D.H.D. Warren and P. Szeredi, editors, *Proceedings of the Seventh International Conference on Logic Programming, ICLP '90*, Jerusalem, Israel, pages 291–305. MIT Press, Cambridge, Massachusetts, United States, June 1990.

- [GR92a] M. Gengler and M. Rytz. A polyvariant binding time analysis handling partially known values. In M. Billaud, P. Castéran, M.-M. Corsini, K. Musumbu, and A. Rauzy, editors, *Proceedings of the Second International Workshop on Static Analysis, WSA '92, Bordeaux, France. BIGRE*, volume 81–82, pages 322–330. IRISA, Rennes, France, 23–25 september 1992.
- [GR92b] R. Giacobazzi and L. Ricci. Detecting determinate computations by bottom-up abstract interpretation. In B. Krieg-Brückner, editor, *Proceedings of the Fourth European Symposium on Programming Languages and Systems, ESOP '92*, Rennes, France, Lecture Notes in Computer Science 582, pages 167–181. Springer, Berlin, Germany, 26–28 February 1992.
- [GR95] R. Giacobazzi and F. Ranzato. Functional dependencies and Moore-set completions of abstract interpretations and semantics. In J.W. Lloyd, editor, *Proceedings of the International Symposium on Logic Programming, ILPS '1995*, Portland, Oregon, United States, pages 321–335. MIT Press, Cambridge, Massachusetts, United States, 4–7 December 1995.
- [GR96] R. Giacobazzi and F. Ranzato. Compositional optimization of disjunctive abstract interpretations. In H. Riis Nielson, editor, *Proceedings of the Sixth European Symposium on Programming Languages and Systems, ESOP '96*, Linköping, Sweden, Lecture Notes in Computer Science 1058, pages 141–155. Springer, Berlin, Germany, 22–26 April 1996.
- [GR97a] R. Giacobazzi and F. Ranzato. Completeness in abstract interpretation: A domain perspective. In M. Johnson, editor, *Proceedings of the Sixth International Conference on Algebraic Methodology and Software Technology, AMAST '97, Sydney, Australia*, volume 1349 of *Lecture Notes in Computer Science*, pages 231–245. Springer, Berlin, Germany, 13–18 December 1997.
- [GR97b] R. Giacobazzi and F. Ranzato. On the least complete extension of complete subsemilattices. *Algebra Universalis*, 38(3):235–237, 1997.
- [GR97c] R. Giacobazzi and F. Ranzato. Refining and compressing abstract domains. In P. Degano, R. Gorrieri, and A. Marchetti-Spaccamela, editors, *Proceedings of the Twentyfourth International Colloquium International Colloquium on Automata, Languages and Programming '97*, volume 1256 of *Lecture Notes in Computer Science*, pages 771–781. Springer, Berlin, Germany, 1997.
- [GR98a] R. Giacobazzi and F. Ranzato. Optimal domains for disjunctive abstract interpretation. *Science of Computer Programming*, 32(1–3):177–210, 1998.
- [GR98b] R. Giacobazzi and F. Ranzato. Some properties of complete congruence lattices. *Algebra Universalis*, 40:189–200, 1998.
- [GR98c] R. Giacobazzi and F. Ranzato. Uniform closures: Order-theoretically reconstructing logic program semantics and abstract domain refinements. *Information and Computation*, 145(2):153–190, 1998.
- [GR99] R. Giacobazzi and F. Ranzato. The reduced relative power operation on abstract domains. *Theoretical Computer Science*, 216:159–211, 1999.
- [GR02] R. Giacobazzi and F. Ranzato. Traces in model checking by abstract interpretation. In M. Hermenegildo and G. Puebla, editors, *Proceedings of the Ninth International Symposium on Static Analysis, SAS '02*, volume 2477 of *Lecture Notes in Computer Science*, pages 461–476, Madrid, Spain, september 2002. Springer, Berlin, Germany.

- [GR04a] R. Giacobazzi and F. Ranzato. Incompleteness of states w.r.t. traces in model checking. Technical report, The Computing Research Repository, CoRR cs.LO/0404048, 2004.
- [GR04b] R. Giacobazzi and F. Ranzato. Incompleteness of states w.r.t. traces in model checking. In *The Computing Research Repository (CoRR cs.LO/0404048)*. ACM, April 2004.
- [GR06] R. Giacobazzi and F. Ranzato. Incompleteness of states w.r.t traces in model checking. *Information and Computation*, 204(3):376–407, March 2006.
- [Gra89] P. Granger. Static analysis of arithmetical congruences. *Int. J. Comput. Math.*, 30:165–190, 1989.
- [Gra91a] P. Granger. *Analyses sémantiques de congruence*. Thèse de l'école polytechnique en informatique, LIX, École polytechnique, Palaiseau, France, 12 July 1991.
- [Gra91b] P. Granger. Static analysis of linear congruence equalities among variables of a program. In S. Abramsky and T.S.E. Maibaum, editors, *Proceedings of the International Joint Conference on Theory and Practice of Software Development, TAPSOFT'91, Volume 1 (CAAP '91)*, Brighton, Great Britain, Lecture Notes in Computer Science 493, pages 169–192. Springer, Berlin, Germany, 1991.
- [Gra92] P. Granger. Improving the results of static analyses of programs by local decreasing iterations. In R. Shyamasundar, editor, *Proceedings of the Twelfth Foundations of Software Technology and Theoretical Computer Science Conference*, New Delhi, India, 18–20 December 1992, Lecture Notes in Computer Science 652, pages 68–79. Springer, Berlin, Germany, 1992.
- [Gra94] S. Graf. Verification of a distributed cache memory by using abstractions. In D.L. Dill, editor, *Proceedings of the Sixth International Conference on Computer Aided Verification, CAV'94*, Stanford, California, United States, Lecture Notes in Computer Science 818, pages 207–219. Springer, Berlin, Germany, 21–23 June 1994.
- [Gra97] P. Granger. Static analyses of congruence properties on rational numbers. In P. van Hentenryck, editor, *Proceedings of the Fourth International Symposium on Static Analysis, SAS'97*, Paris, France, 8–10 september 1997, Lecture Notes in Computer Science 1302, pages 278–292. Springer, Berlin, Germany, 1997.
- [Gra99] S. Graf. Characterization of a sequentially consistent memory and verification of a cache memory by abstraction. *Distributed Computing*, 12(2–3):75–9, 1999.
- [GRS98a] R. Giacobazzi, F. Ranzato, and F. Scozzari. Building complete abstract interpretations in a linear logic-based setting. In G. Levi, editor, *Proceedings of the Fifth International Symposium on Static Analysis, SAS'98*, Pisa, Italy, 14–16 september 1998, Lecture Notes in Computer Science 1503, pages 215–229. Springer, Berlin, Germany, 1998.
- [GRS98b] R. Giacobazzi, F. Ranzato, and F. Scozzari. Complete abstract interpretations made constructive. In L. Brim, J. Gruska, and J. Zlatuska, editors, *Proceedings of the Twentythird International Symposium on Mathematical Foundations of Computer Science, MFCS'98*, volume 1450 of *Lecture Notes in Computer Science*, pages 366–377. Springer, Berlin, Germany, 1998.

- [GRS00] R. Giacobazzi, F. Ranzato, and F. Scozzari. Making abstract interpretations complete. *Journal of the Association for Computing Machinery*, 47(2):361–416, 2000.
- [GRS05] R. Giacobazzi, F. Ranzato, and F. Scozzari. Making abstract domains condensing. *ACM Trans. Comput. Log.*, 6(1):33–60, 2005.
- [GS96] S. Graf and H. Saïdi. Verifying invariants using theorem proving. In R. Alur and T.A. Henzinger, editors, *Proceedings of the Eight International Conference on Computer Aided Verification, CAV'97*, New Brunswick, New Jersey, United States, Lecture Notes in Computer Science 1102, pages 196–207. Springer, Berlin, Germany, July 31 — August 3 1996.
- [GS97a] R. Giacobazzi and F. Scozzari. Intuitionistic implication in abstract interpretation. In H. Glaser, P.H. Hartel, and H. Kuchen, editors, *Proceedings of the Ninth International Symposium on Programming Language Implementation and Logic Programming, PLILP '97*, pages 175–189, Southampton, United Kingdom, 3–5 september 1997, Lecture Notes in Computer Science 1292, 1997. Springer, Berlin, Germany.
- [GS97b] S. Graf and H. Saïdi. Construction of abstract state graphs with PVS. In O. Grumberg, editor, *Proceedings of the Ninth International Conference on Computer Aided Verification, CAV'97*, Haifa, Israel, Lecture Notes in Computer Science 1254, pages 72–83. Springer, Berlin, Germany, 22–25 July 1997.
- [GS98] R. Giacobazzi and F. Scozzari. A logical model for relational abstract domains. *ACM Transactions on Programming Languages and Systems*, 20(5):1067–1109, 1998.
- [GSR03] O. Gheorghiu, A. Sălcianu, and M. Rinard. Interprocedural compatibility analysis for static object preallocation. In *Conference Record of the Thirteenth Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages*, pages 273–284, New Orleans, Louisiana, United States, 15–17 January 2003. ACM Press, New York, New York, United States.
- [GT96] M.M. Gallardo and J.M. Troya. Studying the cost of logic languages in an abstract interpretation framework for granularity analysis. In M. Proietti, editor, *Proceedings of the Fifth International Workshop on Logic Program Synthesis and Transformation, LOPSTR '95*, Utrecht, The Netherlands, 20–22 september 1995, Lecture Notes in Computer Science 1048, pages 91–105. Springer, Berlin, Germany, 1996.
- [GT07] S. Gulwani and A. Tiwari. Computing procedure summaries for interprocedural analysis. In R. De Nicola, editor, *Proceedings of the Sixteenth European Symposium on Programming Languages and Systems, ESOP '07*, volume 4421 of *Lecture Notes in Computer Science*, pages 253–267, Braga, Portugal, 24 March – 1 April 2007. Springer, Berlin, Germany.
- [GZ86] Y. Gang and X. Zhiliang. An efficient type system for Prolog. In H.J. Kugler, editor, *Proceedings of the IFIP 86*, pages 355–359. North-Holland Pub. Co., Amsterdam, The Netherlands, 1986.
- [Hal79] N. Halbwachs. *Détermination automatique de relations linéaires vérifiées par les variables d'un programme*. Thèse de 3<sup>ème</sup> cycle d'informatique, Université scientifique et médicale de Grenoble, Grenoble, France, 12 March 1979.

- [Hal93] N. Halbwachs. Delay analysis in synchronous programs. In C. Courcoubatis, editor, *Proceedings of the Fifth International Conference on Computer Aided Verification, CAV'93*, Elounda, Greece, Lecture Notes in Computer Science 697, pages 333–346. Springer, Berlin, Germany, 28 June –1 July 1993.
- [Hal94] N. Halbwachs. About synchronous programming and abstract interpretation. In B. Le Charlier, editor, *Proceedings of the First International Symposium on Static Analysis, SAS'94*, Namur, Belgium, 20–22 september 1994, Lecture Notes in Computer Science 864, pages 179–192. Springer, Berlin, Germany, 1994.
- [Hal98] N. Halbwachs. About synchronous programming and abstract interpretation. *Science of Computer Programming*, 31(1):75–89, May 1998.
- [HALGP05] M.V. Hermenegildo, E. Albert, P. López-García, and G. Puebla. Abstraction carrying code and resource-awareness. In P. Barahona and A.P. Felty, editors, *Proceedings of the Seventh ACM-SIGPLAN International Conference Principles and Practice of Declarative Programming, PPDP '05*, pages 1–11, Lisbon, Portugal, 11–13 July 2005. ACM Press, New York, New York, United States.
- [Han93] M. Hanus. Analysis of nonlinear constraints in CLP(R). In D.S. Warren, editor, *Proceedings of the Tenth International Conference on Logic Programming, ICLP '93*, Budapest, Hungary, pages 83–99. MITpress, 21–25 June 1993.
- [Han96] M. Handjiev. STAN: A static analyzer for CLP( $\mathbb{R}$ ) based on abstract interpretation. In R. Cousot and D.A. Schmidt, editors, *Proceedings of the Third International Symposium on Static Analysis, SAS '96*, Aachen, Germany, 24–26 september 1996, Lecture Notes in Computer Science 1145, pages 383–384. Springer, Berlin, Germany, 1996.
- [Han98] J. Hannan. Program analysis in Lambda-Prolog. In C. Palamidessi, H. Glaser, and K. Meinke, editors, *Proceedings of the Tenth International Symposium on Programming Language Implementation and Logic Programming, PLILP '98*, pages 353–354. Springer, Berlin, Germany, Pisa, Italy, 16–18 september 1998, Lecture Notes in Computer Science 1490, 1998.
- [HAZCK00] A. Heaton, M. Abo-Zaed, M. Codish, and A. King. Simple, efficient and scalable groundness analysis of logic programs. *Journal of Logic Programming*, 45(1–3):143–156, 2000.
- [HBCC99] M. Hind, M. Burke, P. Carini, and J.-D. Choi. Interprocedural pointer alias analysis. *ACM Transactions on Programming Languages and Systems*, 21(4):848–894, July 1999.
- [HBGT02] I. Hwang, H. Balakrishnan, R. Ghosh, and C. Tomlin. Reachability analysis of delta-notch lateral inhibition using predicate abstraction. In S. Sahni, V.K. Prasanna, and U. Shukla, editors, *Proceedings of the Ninth International Conference on High Performance Computing, HiPC 2002*, pages 715–724, Bangalore, India, Lecture Notes in Computer Science 2552, 18–21 December 2002. Springer, Berlin, Germany.
- [HBZ98] P.M. Hill, R. Bagnara, and E. Zaffanella. The correctness of set-sharing. In G. Levi, editor, *Proceedings of the Fifth International Symposium on Static Analysis, SAS'98*, Pisa, Italy, 14–16 september 1998, Lecture Notes in Computer Science 1503, pages 99–114. Springer, Berlin, Germany, 1998.

- [Hei92a] N. Heintze. Practical aspects of set based analysis. In K.R. Apt, editor, *Proceedings of the Joint International Conference and Symposium on Logic Programming, JICSLP '92*, Washington, D.C., United States, pages 765–779. MIT Press, Cambridge, Massachusetts, United States, November 1992.
- [Hei92b] N. Heintze. *Set Based Program Analysis*. PhD thesis, Carnegie Mellon University, Pittsburgh, Pennsylvania, United States, October 1992.
- [Hei94] N. Heintze. Set-based analysis of ML programs. In *Proceedings of the ACM Conference on Lisp and Functional Programming*, Orlando, Florida, United States, pages 306–317. ACM Press, New York, New York, United States, 27–29 June 1994.
- [Hen91] F. Henglein. Efficient type inference for higher-order binding-time analysis. In J. Hughes, editor, *Proceedings of the Fifth ACM Conference on Functional Programming Languages and Computer Architecture*, Lecture Notes in Computer Science 523, pages 448–472. Springer, Berlin, Germany, August 1991.
- [Her97] M.V. Hermenegildo. Programming with global analysis (abstract). In J. Małuszyński, editor, *Proceedings of the International Symposium on Logic Programming, ILPS '1997*, Port Jefferson, Long Island, New York, United States, pages 49–50. MIT Press, Cambridge, Massachusetts, United States, 13–16 October 1997.
- [HGP05] M.V. Hermenegildo and P. López-García G. Puebla, F. Bueno. Integrated program debugging, verification, and optimization using abstract interpretation (and the ciao system preprocessor). *Science of Computer Programming*, 58(1–2):115–140, 2005.
- [Hin01] M. Hind. Pointer analysis: Haven't we solved this problem yet? In *2001 ACM SIGPLAN-SIGSOFT Workshop on Program Analysis for Software Tools and Engineering, PASTE '01*, Snowbird, Utah, United States, 2001.
- [HJNRN99] R.R. Hansen, J.G. Jensen, F. Nielson, and H. Riis Nielson. Abstract interpretation of mobile ambients. In A. Cortesi and G. Filé, editors, *Proceedings of the Sixth International Symposium on Static Analysis, SAS '99*, Venice, Italy, 22–24 september 1999, Lecture Notes in Computer Science 1694, pages 134–138. Springer, Berlin, Germany, 1999.
- [HK87] K. Horiuchi and T. Kanamori. Polymorphic type inference in Prolog by abstract interpretation. In K. Furukawa, H. Tanaka, and T. Fujisaki, editors, *Proceedings of the Sixth Conference on Logic Programming '87*, Tokyo, Japan, Lecture Notes in Computer Science 315, pages 195–214. Springer, Berlin, Germany, June 1987.
- [HKL04] J.M. Howe, A. King, and L. Lu. Analysing logic programs by reasoning backwards. In M. Bruynooghe and Kung-Kiu Lau, editors, *Program Development in Computational Logic 2004: A Decade of Research Advances in Logic-Based Program Development*, volume 3049 of *Lecture Notes in Computer Science*, pages 152–188. Springer, Berlin, Germany, 2004.
- [HL99] M. Hanus and S. Lucas. A semantics for program analysis in narrowing-based functional logic languages. In A. Middeldorp and T. Sato, editors, *Fourth Fuji International Symposium on Functional and Logic Programming, FLOPS '99*, Tsukuba, Japan, 11–13 November 1999, Lecture Notes in Computer Science 1722, pages 353–368. Springer, Berlin, Germany, 1999.
- [HM95] N. Halbwachs and F. Maraninch. On the symbolic analysis of combinational loops in circuits and synchronous programs. In *Euromicro'95*, Como, Italy, september 1995.

- [HMCV03] N. Halbwachs, D. Merchat, and C. Parent-Vigouroux. Cartesian factoring of polyhedra in linear relation analysis. In R. Cousot, editor, *Proceedings of the Tenth International Symposium on Static Analysis, SAS'03*, volume 2694 of *Lecture Notes in Computer Science*, pages 355–365, San Diego, California, June 2003. Springer, Berlin, Germany.
- [Hor92] K. Horiuchi. Less abstract semantics for abstract interpretation of FGHC programs. In ICOT Staff, editor, *Proceedings of the International Conference on Fifth Generation Computer Systems 92*, Tokyo, Japan, 1-5 June 1992, pages 897–906. IOS Press, Amsterdam, The Netherlands, 1992.
- [HP98] M. Hind and A. Pioli. Assessing the effects of flow-sensitivity on pointer alias analyses. In G. Levi, editor, *Proceedings of the Fifth International Symposium on Static Analysis, SAS'98*, Pisa, Italy, 14–16 september 1998, Lecture Notes in Computer Science 1503, pages 57–81. Springer, Berlin, Germany, 1998.
- [HP06] H. Hermanns and J. Palsberg, editors. *A Local Shape Analysis based on Separation Logic*, Vienna, Austria, Lecture Notes in Computer Science 3920. Springer, Berlin, Germany, 25 March —2April 2006.
- [HPB99] M. Hermenegildo, G. Puebla, and F. Bueno. Using global analysis, partial specifications, and an extensible assertion language for program validation and debugging. In K.R. Apt, V.W. Marek, M. Truszczynski, and D.S. Warren, editors, *The logic programming paradigm: A 25-year perspective*, pages 161–192. Springer, Berlin, Germany, 1999.
- [HPBLG02] M.V. Hermenegildo, G. Puebla, F. Bueno, and P. López-García. Program debugging and validation using semantic approximations and partial specifications. In P. Widmayer, F. Triguero Ruiz, R. Morales Bueno, M. Hennessy, S. Eidenbenz, and R. Conejo, editors, *Proceedings of the Twentyninth International Colloquium International Colloquium on Automata, Languages and Programming '02*, volume 2380 of *Malaga, Spain, 7–11 July 1997, Lecture Notes in Computer Science*, pages 69–72. Springer, Berlin, Germany, 8–13 July 2002.
- [HPBLG03a] M.V. Hermenegildo, G. Puebla, . Bueno, and P. López-García. Program development using abstract interpretation (and the ciao system preprocessor). In R. Cousot, editor, *Proceedings of the Tenth International Symposium on Static Analysis, SAS'03*, volume 2694 of *Lecture Notes in Computer Science*, pages 127–152, San Diego, California, June 2003. Springer, Berlin, Germany.
- [HPBLG03b] M.V. Hermenegildo, G. Puebla, F. Bueno, and P. López-García. Abstract verification and debugging of constraint logic programs. In B. O'Sullivan, editor, *Recent Advances in Constraints, Joint ERCIM/CologNet International Workshop on Constraint Solving and Constraint Logic Programming, Cor, Ireland, 19–21 June 2002*, volume 2627 of *Lecture Notes in Computer Science*, pages 1–14. Springer, Berlin, Germany, 2003.
- [HPR94] N. Halbwachs, J.-É. Proy, and P. Raymond. Verification of linear hybrid systems by means of convex approximations. In B. Le Charlier, editor, *Proceedings of the First International Symposium on Static Analysis, SAS'94*, Namur, Belgium, 20–22 september 1994, Lecture Notes in Computer Science 864, pages 223–237. Springer, Berlin, Germany, 1994.
- [HPR97] N. Halbwachs, Y.E. Proy, and P. Roumanoff. Verification of real-time systems using linear relation analysis. *Formal Methods in System Design*, 11(2):157–185, August 1997.

- [HR96] N. Halbwachs and P. Raymond. On the use of approximations in symbolic model checking. Technical report SPECTRE L21, VERIMAG laboratory, Grenoble, France, January 1996.
- [HS91] S. Hunt and D. Sands. Binding time analysis: A new PERspective. In P. Hudak and N.D. Jones, editors, *Proceedings of the ACM Symposium on Partial Evaluation and Semantics-Based Program Manipulation, PEPM '91*, Yale U., New Haven, Connecticut, United States, 17–19 June 1991, ACM SIGPLAN Notices 26(9), pages 154–165. ACM Press, New York, New York, United States, september 1991.
- [HS95] F. Henglein and D. Sands. A semantic model of binding times for safe partial evaluation. In M.V. Hermenegildo and S.D. Swierstra, editors, *Proceedings of the Seventh International Symposium on Programming Language Implementation and Logic Programming, PLILP '95*, Utrecht, The Netherlands, 20–22, september 1995, Lecture Notes in Computer Science 982, pages 299–320. Springer, Berlin, Germany, 1995.
- [HS99] P.M. Hill and F. Spoto. Freeness analysis through refinement. In A. Cortesi and G. Filé, editors, *Proceedings of the Sixth International Symposium on Static Analysis, SAS '99*, Venice, Italy, 22–24 september 1999, Lecture Notes in Computer Science 1694, pages 85–100. Springer, Berlin, Germany, 1999.
- [HS03] P.M. Hill and F. Spoto. Logic programs as compact denotations. In V. Dahl and P. Wadler, editors, *Proceedings of the Fifth International Symposium Practical Aspects of Declarative Languages, PADL '2003*, New Orleans, Louisiana, United States, 13–14 January 2003, Lecture Notes in Computer Science 2592, pages 339–356. Springer, Berlin, Germany, 2003.
- [HT98] M. Handjiev and S. Tzolovski. Refining static analyses by trace-based partitioning using control flow. In G. Levi, editor, *Proceedings of the Fifth International Symposium on Static Analysis, SAS '98*, Pisa, Italy, 14–16 september 1998, Lecture Notes in Computer Science 1503, pages 200–214. Springer, Berlin, Germany, 1998.
- [HTYS04] M. Hagiya, . Takahashi, M. Yamamoto, and T. Sato. Analysis of synchronous and asynchronous cellular automata using abstraction by temporal logic. In Y. Kameyama and P.J. Stuckey, editors, *Seventh Fuji International Symposium on Functional and Logic Programming, FLOPS '04*, Nara, Japan, 7–9 April 2004, Lecture Notes in Computer Science 2998, pages 7–21. Springer, Berlin, Germany, 2004.
- [Huc99] F. Huch. Verification of Erlang programs using abstract interpretation and model checking. In *Proceedings of the Fourth ACM SIGPLAN International Conference on Logic Programming, ICFP '99*, ACM SIGPLAN Notices 34(9), pages 261–272, Paris, France, 27–29 september 1999. ACM Press, New York, New York, United States.
- [Hug86] R.J.M. Hughes. Strictness detection in non-flat domains. In H. Ganzinger and N.D. Jones, editors, *Programs as Data Objects, Proceedings of a Workshop*, Copenhagen, Denmark, 17–19 October 1985, Lecture Notes in Computer Science 217, pages 112–135. Springer, Berlin, Germany, 1986.
- [HWD92] M.V. Hermenegildo, R. Warren, and S.K. Debray. Global flow analysis as a practical compilation tool. *Journal of Logic Programming*, 13(4):349–366, August 1992.

- [HY86] P. Hudak and J. Young. Higher-order strictness analysis in untyped lambda calculus. In *Conference Record of the Twelfth Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages*, pages 97–109. ACM Press, New York, New York, United States, January 1986.
- [IJT91] F. Irigoin, P. Jouvelot, and R. Triolet. Semantical interprocedural parallelization: an overview of the PIPS project. In *ICS '91, Proceedings of the Fifth International Conference on Supercomputing, June 1991, Cologne, Germany*, pages 244–251. ACM Press, New York, New York, United States, 1991.
- [JB90] G. Janssens and M. Bruynooghe. Deriving descriptions of possible values of program variables by means of abstract interpretation. report CW 107, Department of Computer Science, Katholieke Universiteit Leuven, Leuven, Belgium, March 1990. (special issue of the Journal of Logic Programming on abstract interpretation).
- [JB92a] G. Janssens and M. Bruynooghe. Deriving descriptions of possible values of program variables by means of abstract interpretation. *Journal of Logic Programming*, 13(1,2,3&4):205–258, 1992. published version of [JB90].
- [JB92b] G. Janssens and M. Bruynooghe. On abstracting the procedural behaviour of logic programs. In A. Voronkov, editor, *Proceedings of the First & Second Russian Conference on Logic Programming*, Irkutsk, Russia, 14–18 september 1990 & St. Petersburg, Russia, 11–16 september 1991 Lecture Notes in Computer Science 592, pages 240–262. Springer, Berlin, Germany, 1992.
- [JB92c] G. Janssens and M. Bruynooghe. On abstracting the procedural behaviour of logic programs. In A. Voronkov, editor, *Proceedings of the First Russian Conference on Logic Programming, Irkutsk, , Russia, 14–18 september 1990 and of the Second Russian Conference on Logic Programming, St. Petersburg, Russia, 11–16 september 1991*, pages 240–262. Springer, Berlin, Germany, 1992.
- [JB93] G. Janssens and M. Bruynooghe. Towards a framework for abstract interpretation of constraint logic programs. In A. Pettorossi, editor, *META '92*, volume 649 of *Lecture Notes in Computer Science*. Springer, Berlin, Germany, 1993.
- [JBD95] G. Janssens, M. Bruynooghe, and V. Dumortier. A blueprint for an abstract machine for abstract interpretation of (constraint) logic programs. In J.W. Lloyd, editor, *Proceedings of the International Symposium on Logic Programming, ILPS '1995*, Portland, Oregon, United States, pages 336–350. MIT Press, Cambridge, Massachusetts, United States, 4–7 December 1995.
- [JBE94] G. Janssens, M. Bruynooghe, and V. Englebert. Abstracting numerical values in CLP(H,N). In M.V. Hermenegildo and J. Penjam, editors, *Proceedings of the Sixth International Symposium on Programming Language Implementation and Logic Programming, PLILP '94*, Madrid, Spain, 14–16 september 1994, Lecture Notes in Computer Science 844, pages 400–414. Springer, Berlin, Germany, 1994.
- [Jea] B. Jeannet. New Polka. <http://www.irisa.fr/prive/bjeannet/newpolka.html>.
- [Jea03] B. Jeannet. Dynamic partitioning in linear relation analysis: Application to the verification of reactive systems. *Formal Methods in System Design*, 23(1):5–37, 2003.

- [Jen92] T.P. Jensen. Disjunctive strictness analysis. In *Proceedings of the Seventh Annual IEEE Symposium on Logic in Computer Science, LICS*, pages 174–185. IEEE Computer Society Press, Los Alamitos, California, United States, 1992.
- [Jen95] T.P. Jensen. Clock analysis of synchronous dataflow programs. In *Proceedings of the ACM Symposium on Partial Evaluation and Semantics-Based Program Manipulation, PEPM '95*, La Jolla, California, pages 156–167. ACM Press, New York, New York, United States, 21–23 June 1995.
- [JGR05] B. Jeannet, D. Gopan, and T.W. Reps. A relational abstraction for functions. In C. Hankin and I. Siveroni, editors, *Proceedings of the Twelfth International Symposium on Static Analysis, SAS '05*, pages 186–202, London, United Kingdom, Lecture Notes in Computer Science 3672, 7–9 september 2005.
- [JHR99] B. Jeannet, N. Halbwachs, and P. Raymond. Dynamic partitioning in analyses of numerical properties. In A. Cortesi and G. Filé, editors, *Proceedings of the Sixth International Symposium on Static Analysis, SAS '99*, Venice, Italy, 22–24 september 1999, Lecture Notes in Computer Science 1694, pages 18–38. Springer, Berlin, Germany, 1999.
- [JL89] D. Jacobs and A. Langen. Accurate and efficient approximation of variable aliasing in logic programs. In E.L. Lusk and R.A. Overbeek, editors, *Logic Programming, Proceedings of the 1989 North American Conference , NACLP 1989, Volume 1*, Cleaveland, Ohio, United States, pages 154–165. MIT Press, Cambridge, Massachusetts, United States, 16–20 October 1989.
- [JL92] D. Jacobs and A. Langen. Static analysis of logic programs for independent and-parallelism. *Journal of Logic Programming*, 13(2–3):291–314, 1992.
- [JM] B. Jeannet and A. Miné. The Apron numerical abstract domain library. <http://apron.cri.ensmp.fr/library/>.
- [JM82] N.D. Jones and S.S. Muchnick. A flexible approach to interprocedural data flow analysis and programs with recursive data structures. In *Conference Record of the Ninth Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages*, pages 66–74, Albuquerque, New Mexico, 1982. ACM Press, New York, New York, United States.
- [JM86] N.D. Jones and A. Mycroft. Data flow analysis of applicative programs using minimal function graphs: abridged version. In *Conference Record of the Thirteenth Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages*, pages 296–306, St. Petersburg Beach, Florida, 1986. ACM Press, New York, New York, United States.
- [JMM97] N. Jørgensen, K. Marriott, and S. Michaylov. Some global compile-time optimizations for CLP(R). In K. Ueda V.A. Saraswat, editor, *Proceedings of the 1991 International Symposium International Symposium on Logic Programming, ISLP '91*, San Diego, California, United States, pages 420–434. MIT Press, Cambridge, Massachusetts, United States, 28 October – 1 November 1997.
- [JN95] N.D. Jones and F. Nielson. Abstract interpretation: a semantics-based tool for program analysis. In S. Abramsky, D.M. Gabbay, and T.S.E. Maibaum, editors, *Semantic Modelling*, volume 4 of *Handbook of Logic in Computer Science*, chapter 5, pages 527–636. Clarendon Press, Oxford, United Kingdom, 1995.

- [Jon91] N.D. Jones. Static semantics, types and binding time analysis. *Theoretical Computer Science*, 90:95–118, 1991.
- [Jon94] N.D. Jones. Abstract interpretation and partial evaluation in functional and logic programming. In M. Bruynooghe, editor, *Proceedings of the 1994 International Symposium on Logic Programming, ISLP '94*, Ithaca, New York, United States, pages 17–22. MIT Press, Cambridge, Massachusetts, United States, 13–17 November 1994.
- [Jou86] P. Jouvelot. Parallelization by semantic detection of reductions. In B. Robinet and R. Wilhelm, editors, *Proceedings of the European Symposium on Programming Languages and Systems, ESOP '86*, Saarbrücken, Germany, 17–19 March 1986, Lecture Notes in Computer Science 213, pages 223–236. Springer, Berlin, Germany, 1986.
- [Jou87] P. Jouvelot. Semantic parallelization: a practical exercise in abstract interpretation. In *Conference Record of the Fourteenth Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages*, pages 39–48, München, Germany, 21–23 January 1987. ACM Press, New York, New York, United States.
- [JP06] Ph. Jorrand and S. Perdrix. Towards a quantum calculus. In *Proceedings of the Fourth International Workshop on Quantum Programming Languages, ENTCS*, 2006.
- [JR97a] N.D. Jones and M. Rosendahl. Higher-order minimal function graphs. *Journal of Functional and Logic Programming*, 1997(2), 1997.
- [JR97b] N.D. Jones and M. Rosendahl. Higher-order minimal function graphs. *Journal of Functional and Logic Programming*, 1997(2), February 1997.
- [JS87] N.D. Jones and H. Søndergaard. A semantics-based framework for the abstract interpretation of Prolog. In S. Abramsky and C. Hankin, editors, *Abstract Interpretation of Declarative Languages*, pages 123–142. Ellis Horwood, Chichester, United Kingdom, 1987.
- [JS94] G. Janssens and W. Simoens. On the implementation of abstract interpretation systems for (constraint) logic programming. In P.A. Fritzson, editor, *Proceedings of the Fifth International Conference on Compiler Construction, CC '94*, Edinburgh, United Kingdom, Lecture Notes in Computer Science 786, pages 172–187. Springer, Berlin, Germany, April 1994.
- [JS98] G. Janssens and K.F. Sagonas. On the use of tabling for abstract interpretation: An experiment with abstract equation systems. In *Proceedings of the First Workshop on Tabulation in Parsing and Deduction, TAPD '98*, Paris, France, pages 118–126. INRIA, Rocquencourt, France, 2–3 April 1998.
- [JS01] T. Jensen and F. Spoto. Class analysis of object-oriented programs through abstract interpretation. In F. Honsell and M. Miculan, editors, *Foundations of Software Sciences and Computation Structures, FoSSaCS2001*, volume 2030 of *Lecture Notes in Computer Science*, pages 261–275, Genova, Italy, April 2001. Springer, Berlin, Germany.
- [JT97] I-P. Lin J. Tan. Recursive modes for precise analysis of logic programs. In J. Małuszyński, editor, *Proceedings of the International Symposium on Logic Programming, ILPS '97*, Port Jefferson, Long Island, New York, United States, pages 277–290. MIT Press, Cambridge, Massachusetts, United States, 13–16 October 1997.

- [Kåg93] A. Kågedal. Improvements in compile-time analysis for ground Prolog. In M. Bruynooghe and J. Penjam, editors, *Proceedings of the Fifth International Symposium on Programming Language Implementation and Logic Programming, PLILP '93*, Tallinn, Estonia, 25–27, August 1993, Lecture Notes in Computer Science 714, pages 92–107. Springer, Berlin, Germany, 1993.
- [Kal93] S. Kalogeropoulos. Identifying the available parallelism using static analysis. In J. Volkert, editor, *Proceedings of the Second International ACPC Conference on Parallel Computation*, pages 151–165, Gmunden, Austria, October 1993, Lecture Notes in Computer Science 734, 1993. Springer, Berlin, Germany.
- [Kan93] T. Kanamori. Abstract interpretation based on Alexander templates. *Journal of Logic Programming*, 15(1&2):31–54, 1993.
- [Kar76] M. Karr. Affine relationships among variables of a program. *Acta Informatica*, 6:133–151, 1976.
- [KBC<sup>+</sup>99] M.T. Kandemir, P. Banerjee, A.N. Choudhary, J. Ramanujam, and N. Shenoy. A global communication optimization technique based on data-flow analysis and linear algebra. *ACM Transactions on Programming Languages and Systems*, 21(6):1251–1297, November 1999.
- [KH85] T. Kanamori and K. Horiuchi. Type inference in Prolog and its application. In A. Joshi, editor, *Proceedings of the Ninth International Joint Conference on Artificial Intelligence*, Los Angeles, California, pages 704–707, August 1985.
- [KHK87] T. Kanamori, K. Horiuchi, and T. Kawamura. Detecting termination of logic programs based on abstract hybrid interpretation. Technical report 398, ICOT, Tokyo, Japan, 1987.
- [KHK88] T. Kanamori, K. Horiuchi, and T. Kawamura. Detecting functionality of logic programs based on abstract hybrid interpretation. Technical report 331, ICOT, Tokyo, Japan, 1988.
- [Kil72] G.A. Kildall. *Global expression optimization during compilation*. PhD thesis, University of Washington, Computer Science Group, TR 72-06-02, 1972.
- [KK87] T. Kanamori and T. Kawamura. Analyzing success patterns of logic programs by abstract hybrid interpretation. Technical report 279, ICOT, Tokyo, Japan, 1987.
- [KK93] T. Kanamori and T. Kawamura. Abstract interpretation based on OLDT resolution. *Journal of Logic Programming*, 15(1&2):1–30, 1993.
- [KKMH89] T. Kanamori, T. Kawamura, M. Maeji, and K. Horiuchi. Logic program analysis and abstract hybrid interpretation. Technical report 485, ICOT, Tokyo, Japan, 1989.
- [Klu87] F. Kluźniak. Type synthesis for Ground Prolog. In J.L. Lassez, editor, *Proceedings of the Fourth International Conference on Logic Programming, Volume 2*, Melbourne, Australia, pages 789–816. MIT Press, Cambridge, Massachusetts, United States, May 1987.
- [Klu88] F. Kluźniak. Compile time garbage collection for ground Prolog. In R. Kowalski and K. Bowen, editors, *Proceedings of the Fifth International Conference and Symposium on Logic Programming, Volume 2*, Seattle, Washington, United States, pages 1490–1505. MIT Press, Cambridge, Massachusetts, United States, 15–19 August 1988.

- [KMSS96] A.D. Kelly, K. Marriott, H. Søndergaard, and P.J. Stuckey. Two applications of an incremental analysis engine for (constraint) logic programs. In R. Cousot and D.A. Schmidt, editors, *Proceedings of the Third International Symposium on Static Analysis, SAS '96*, Aachen, Germany, 24–26 september 1996, Lecture Notes in Computer Science 1145, pages 385–386. Springer, Berlin, Germany, 1996.
- [KN95] M.H. Sørensen K. Nielsen. Call-by-name CPS-translation as a binding-time improvement. In A. Mycroft, editor, *Proceedings of the Second International Symposium on Static Analysis, SAS '95*, Glasgow, United Kingdom, 25–27 september 1995, Lecture Notes in Computer Science 983, pages 296–313. Springer, Berlin, Germany, 1995.
- [KN05] A.. Kordon and J.-B. Note. A buffer minimization problem for the design of embedded systems. *European Journal of Operational Research*, 164(3):669–679, 2005.
- [KPK02] L. Koved, Marco Pistoia, and A. Kershenbaum. Access rights analysis for Java. In *Proceedings of the ACM SIGPLAN Conference on Object-Oriented Programming Systems, Languages & Applications (OOPSLA '02)*. ACM SIGPLAN Notices 37(11), pages 359–372, Seattle, Washington, United States, November 2002. ACM Press, New York, New York, United States.
- [KR90] K.S. Kemp and G.A. Ringwood. An algebraic framework for abstract interpretation of definite programs. In S.K. Debray and M. Hermenegildo, editors, *Logic Programming, Proceedings of the 1997 North American Conference , NACLP 1997*, Austin, Texas, United States, pages 516–530. MIT Press, Cambridge, Massachusetts, United States, 29 October – 1 November 1990.
- [KS90] A. King and P. Sober. December larative semantics and abstract interpretation of concurrent logic programs. Technical report CSTR 90-18, Department of Electronics and Computer Science, University of Southampton, Southampton, United Kingdom, 1990.
- [KS92] A. King and . Soper. Schedule analysis of concurrent logic programs. In K.R. Apt, editor, *Proceedings of the Joint International Conference and Symposium on Logic Programming, JICSLP '92*, Washington, D.C., United States, pages 478–492. MIT Press, Cambridge, Massachusetts, United States, November 1992.
- [LAS00] T. Lev-Ami and M. Sagiv. TVLA: A system for implementing static analyses. In J. Palsberg, editor, *Proceedings of the Seventh International Symposium on Static Analysis, SAS '2000*, Santa Barbara, California, United States, Lecture Notes in Computer Science 1824, pages 280–301. Springer, Berlin, Germany, 29 June – 1 July 2000.
- [Lau89] J. Launchbury. Dependent sums express separation of binding times. In K. Davis and J. Hughes, editors, *Functional Programming, Glasgow 1989*, Proceedings of the 1989 Glasgow Workshop, Fraserburgh, Scotland. Springer, Berlin, Germany and British Computer Society, 238–253 August 1989.
- [LBC05] S.K. Lahiri, T. Ball, and B. Cook. Predicate abstraction via symbolic decision procedures. In K. Etessami and S. Rajamani, editors, *Proceedings of the Seventeenth International Conference on Computer Aided Verification, CAV '05*, Edinburg, Scotland, Lecture Notes in Computer Science, pages 24–38. Springer, Berlin, Germany, 3–5 July 2005.

- [LC05] F. Logozzo and A. Cortesi. Abstract interpretation and object-oriented programming: Quo vadis? *Proceedings of the First International Workshop on Abstract Interpretation of Object-oriented Languages (AIOOL 2005)*, *Electronic Notes in Theoretical Computer Science*, 131:75–85, May 2005. <http://www.elsevier.nl/locate/entcs/volume131.html>.
- [LC06] F. Logozzo and A. Cortesi. Semantic hierarchy refactoring by abstract interpretation. In E.A. Emerson and K.S. Namjoshi, editors, *Proceedings of the Seventh International Conference on Verification, Model Checking and Abstract Interpretation (VMCAI 2006)*, pages ???–???, Charleston, South Carolina, United States, 8–10, January 2006. Lecture Notes in Computer Science 3855, Springer, Berlin, Germany.
- [LCF97] B. Le Charlier and P. Flener. On the desirable link between theory and practice in abstract interpretation. In P. Van Hentenryck, editor, *Proceedings of the Fourth International Symposium on Static Analysis, SAS '97*, Paris, France, 8–10 september 1997, Lecture Notes in Computer Science 1302, pages 379–387. Springer, Berlin, Germany, 1997.
- [LCMVH91] B. Le Charlier, K. Musumbu, and P. Van Hentenryck. A generic abstract interpretation algorithm and its complexity analysis. In K. Furukawa, editor, *Proceedings of the International Conference on Logic Programming, ICLP '91*, Paris, France, pages 64–78. MIT Press, Cambridge, Massachusetts, United States, 24–28 June 1991.
- [LCVH92a] B. Le Charlier and P. Van Hentenryck. Experimental evaluation of a generic abstract interpretation algorithm for Prolog. In *Proceedings of the 1992 International Conference on Computer Languages*, Oakland, California, pages 137–146. IEEE Computer Society Press, Los Alamitos, California, United States, 20–23 April 1992.
- [LCVH92b] B. Le Charlier and P. Van Hentenryck. Reexecution in Abstract Interpretation of Prolog. In Krzysztof Apt, editor, *Proceedings of the International Conference and Symposium on Logic Programming*, pages 750–764, Washington, USA, November 1992. MIT Press, Cambridge, Massachusetts, United States.
- [LCVH94] B. Le Charlier and P. Van Hentenryck. Experimental evaluation of a generic abstract interpretation algorithm for Prolog. *ACM Transactions on Programming Languages and Systems*, 16(1):35–101, January 1994.
- [LDL91] C. Lecoutre, P. Devienne, and P. Lebègue. Une analyse du comportement récursif de programmes Prolog par une interprétation abstraite. *Actes JTASPEFL '91, Bordeaux, France. BIGRE*, 74:62–69, October 1991.
- [LDL92] C. Lecoutre, P. Devienne, and P. Lebègue. Abstract interpretation and recursive behaviour of logic programs. In T.P. Clement and K.-K. Lau, editors, *Proceedings of the International Workshop on Logic Program Synthesis and Transformation, LOPSTR '91*, Manchester, United Kingdom, 4–5 July 1991, Workshops in Computing, pages 147–166. Springer, Berlin, Germany, 1992.
- [Leu92] M. Leuschel. Program specialisation and abstract interpretation reconciled. In J. Jaffar, editor, *Joint International Conference and Symposium on Logic Programming, JICSLP '98, Workshop on Concurrent and Parallel Implementations*, Manchester, United Kingdom, pages 220–234. MIT Press, Cambridge, Massachusetts, United States, 15–19 June 1992.

- [Leu98] M. Leuschel. On the power of homeomorphic embedding for online termination. In G. Levi, editor, *Proceedings of the Fifth International Symposium on Static Analysis, SAS'98*, Pisa, Italy, 14–16 september 1998, Lecture Notes in Computer Science 1503, pages 200–214. Springer, Berlin, Germany, 1998.
- [LG93] L. Lu and P. Greenfield. Logic program testing based on abstract interpretation. In D. Bjørner, M. Broy, and I.V. Pottosin, editors, *Proceedings of the International Conference on Formal Methods in Programming and their Applications*, Akademgorodok, Novosibirsk, Russia, Lecture Notes in Computer Science 735, pages 170–180. Springer, Berlin, Germany, 28 June – 2 July 1993.
- [LGBH05] P. López-García, F. Bueno, and M.V. Hermenegildo. Determinacy analysis for logic programs using mode and type information. In S. Etalle, editor, *Proceedings of the Fourteenth International Symposium on Logic Program Synthesis and Transformation, LOPSTR'2004*, Verona, Italy, 26–28 August 2004, Lecture Notes in Computer Science 3573, pages 19–35. Springer, Berlin, Germany, 2005.
- [LGS<sup>+</sup>95] C. Loiseaux, S. Graf, J. Sifakis, A. Bouajjani, and S. Bensalem. Property preserving abstractions for the verification of concurrent systems. *Formal Methods in System Design*, 6(1):11–44, January 1995.
- [Lin95] T. Lindgren. Control flow analysis of Prolog. In J.W. Lloyd, editor, *Proceedings of the International Symposium on Logic Programming, ILPS'1995*, Portland, Oregon, United States, pages 432–446. MIT Press, Cambridge, Massachusetts, United States, 4–7 December 1995.
- [LK04] L. Lu and A. King. Backward pair sharing analysis. In Y. Kameyama and P.J. Stuckey, editors, *Seventh Fuji International Symposium on Functional and Logic Programming, FLOPS'04*, Nara, Japan, 7–9 April 2004, Lecture Notes in Computer Science 2998, pages 132–146. Springer, Berlin, Germany, 2004.
- [LMBG00] C. Lecoutre, S. Merchez, F. Boussemart, and É. Grégoire. A CSP abstraction framework. In B.Y. Choueiry and T. Walsh, editors, *Proceedings of the Fourth International Symposium on Abstraction, Reformulation and Approximation, SARA'2000*, Horseshoe Bay, Texas, United States, Lecture Notes in Artificial Intelligence 1864, pages 164–184. Springer, Berlin, Germany, 26–29 July 2000.
- [LMR<sup>+</sup>98] P. Lacan, J.N. Monfort, L.V.Q. Ribal, A. Deutsch, and G. Gonthier. The software reliability verification process: The ARIANE 5 example. In *Proceedings DASIA 98 – DAta Systems In Aerospace*, Athens, Greece. ESA Publications, SP-422, 25–28 May 1998.
- [Log03] F. Logozzo. Class-level modular analysis for object oriented languages. In R. Cousot, editor, *Proceedings of the Tenth International Symposium on Static Analysis, SAS'03*, volume 2694 of *Lecture Notes in Computer Science*, pages ???–???, San Diego, California, June 2003. Springer, Berlin, Germany.
- [Log04a] F. Logozzo. Automatic inference of class invariants. In B. Steffen and G. Levi, editors, *Proceedings of the Fifth International Conference on Verification, Model Checking and Abstract Interpretation (VMCAI 2004)*, pages ???–???, Venice, Italy, 11–13 January 2004. Lecture Notes in Computer Science 2937, Springer, Berlin, Germany.

- [Log04b] F. Logozzo. *Modular static analysis of object-oriented languages*. Thèse de doctorat en informatique, École polytechnique, Palaiseau, France, 15 June 2004.
- [Log04c] F. Logozzo. Separate compositional analysis of class-based object-oriented languages. In C. Rattray, S. Maharaj, and C. Shankland, editors, *Proceedings of the Tenth International Conference on Algebraic Methodology and Software Technology, AMAST '2004*, Stirling, United Kingdom, Lecture Notes in Computer Science 3116, pages 332–346. Springer, Berlin, Germany, 12–16 July 2004.
- [LS98] G. Levi and F. Spoto. An experiment in domain refinement: Type domains and type representations for logic programs. In C. Palamidessi, H. Glaser, and K. Meinke, editors, *Proceedings of the Tenth International Symposium on Programming Language Implementation and Logic Programming, PLILP '98*, pages 152–169. Springer, Berlin, Germany, Pisa, Italy, 16–18 september 1998, Lecture Notes in Computer Science 1490, 1998.
- [LS99] G. Levi and F. Spoto. Non pair-sharing and freeness analysis through linear refinement. In *Proceedings of the ACM Symposium on Partial Evaluation and Semantics-Based Program Manipulation, PEPM '00*, ACM SIGPLAN Notices 34(11), Boston, Massachusetts, United States, 22–23 January 2000, pages 202–213. ACM Press, New York, New York, United States, November 1999.
- [Lu96] L. Lu. A mode analysis of logic programs by abstract interpretation. In D. Bjørner, M. Broy, and I.V. Pottosin, editors, *Proceedings of the Perspectives of System Informatics, Second International Andrei Ershov Memorial Conference*, Akademgorodok, Novosibirsk, Russia, Lecture Notes in Computer Science 1181, pages 362–373. Springer, Berlin, Germany, 25–28 June 1996.
- [LV98] G. Levi and P. Volpe. Derivation of proof methods by abstract interpretation. In C. Palamidessi, H. Glaser, and K. Meinke, editors, *Proceedings of the Tenth International Symposium on Programming Language Implementation and Logic Programming, PLILP '98*, pages 102–117. Springer, Berlin, Germany, Pisa, Italy, 16–18 september 1998, Lecture Notes in Computer Science 1490, 1998.
- [Mal92] O. Mallet. *Interprétation abstraite appliquée à la compilation et la parallélisation en programmation logique*. Thèse de l'école polytechnique en informatique, LIX, École polytechnique, Palaiseau, France, 29 June 1992.
- [Mar93] K. Marriott. Frameworks for abstract interpretation. *Acta Informatica*, 30(2):103–129, 1993.
- [Mar94] M. Marchiori. Localizations of unification freedom through matching directions. In M. Bruynooghe, editor, *Proceedings of the International Symposium on Logic Programming, ILPS '1994*, Ithaca, New York, United States, pages 392–406. MIT Press, Cambridge, Massachusetts, United States, 13–17 November 1994.
- [Mar96] E. Marchiori. Prime factorization of abstract domains using first-order logic. In M. Hanus and M. Rodríguez-Artalijo, editors, *Fifth International Conference Algebraic and Logic Programming, ALP '96*, Aachen, Germany, 25–27 september 1996, Lecture Notes in Computer Science 1139, pages 209–223. Springer, Berlin, Germany, 1996.
- [Mar99] E. Marchiori. Design of abstract domains using first-order logic. *Theoretical Computer Science*, 222(1-2):77–111, July 1999.

- [Mas91] F. Masdupuy. Using abstract interpretation to detect array data dependencies. In *Proceedings of the International Symposium on Supercomputing*, pages 19–27, Fukuoka, Japan, November 1991. Kyushu University Press.
- [Mas92] F. Masdupuy. Array operations abstraction using semantic analysis of trapezoid congruences. In *Proceedings of the ACM International Conference on Supercomputing, ICS '92*, pages 226–235, Washington D.C., July 1992.
- [Mas93a] F. Masdupuy. *Analyse sémantique relationnelle des indices de tableaux par congruence et trapézoïdes rationnels*. Thèse de l'école polytechnique en informatique, LIX, École polytechnique, Palaiseau, France, 21 December 1993.
- [Mas93b] F. Masdupuy. Semantic analysis of interval congruences. In D. Bjørner, M. Broy, and I.V. Pottosin, editors, *Proceedings of the International Conference on Formal Methods in Programming and their Applications*, Akademgorodok, Novosibirsk, Russia, Lecture Notes in Computer Science 735, pages 142–155. Springer, Berlin, Germany, 28 June – 2 July 1993.
- [Mas98] D. Massé. Interprétation abstraite du langage de programmation LUSTRE. Rapport de stage, DEA “Sémantique, Preuve et Programmation”, July 1998.
- [Mas01] D. Massé. Combining forward and backward analyzes of temporal properties. In O. Danvy and A. Filinski, editors, *Proceedings of the Second Symposium PADO '2001, Programs as Data Objects*, Århus, Denmark, 21–23 May 2001, Lecture Notes in Computer Science 2053, pages 155–172. Springer, Berlin, Germany, 2001.
- [Mas02] D. Massé. Semantics for abstract interpretation-based static analyses of temporal properties. In M.V. Hermenegildo and G. Puebla, editors, *Proceedings of the Ninth International Symposium on Static Analysis, SAS '02*, Madrid, Spain, 17–20 september 2002, Lecture Notes in Computer Science 2477, pages 428–443. Springer, Berlin, Germany, 2002.
- [Mas03] D. Massé. Property checking driven abstract interpretation-based static analysis. In L. Zuck, P. Attie, A. Cortesi, and S. Mukhopadhyay, editors, *Proceedings of the Fourth International Conference on Verification, Model Checking and Abstract Interpretation (VMCAI 2003)*, pages 56–69, New York, New York, United States, 9–11 January 2003. Lecture Notes in Computer Science 2575, Springer, Berlin, Germany.
- [Mas04] D. Massé. Abstract domains for property checking driven analysis of temporal properties. In C. Rattray, S. Maharaj, and C. Shankland, editors, *Proceedings of the Tenth International Conference on Algebraic Methodology and Software Technology, AMAST '2004*, Stirling, United Kingdom, Lecture Notes in Computer Science 3116, pages 349–363. Springer, Berlin, Germany, 12–16 July 2004.
- [Mau94] L. Mauborgne. Abstract interpretation using TDGs. In B. Le Charlier, editor, *Proceedings of the First International Symposium on Static Analysis, SAS '94*, Namur, Belgium, 20–22 september 1994, Lecture Notes in Computer Science 864, pages 363–379. Springer, Berlin, Germany, 1994.
- [Mau98] L. Mauborgne. Abstract interpretation using typed decision graphs. *Science of Computer Programming*, 31(1):91–112, May 1998.

- [Mau99a] L. Mauborgne. Binary decision graphs. In A. Cortesi and G. Filé, editors, *Proceedings of the Sixth International Symposium on Static Analysis, SAS '99*, Venice, Italy, 22–24 september 1999, Lecture Notes in Computer Science 1694, pages 101–116. Springer, Berlin, Germany, 1999.
- [Mau99b] L. Mauborgne. *Representation of Sets of Trees for Abstract Interpretation*. Phd thesis in computer science, École polytechnique, Palaiseau, France, 25 November 1999.
- [Mau00a] L. Mauborgne. Improving the representation of infinite trees to deal with sets of trees. In G. Smolka, editor, *Programming Languages and Systems, Proceedings of the Ninth European Symposium on Programming Languages and Systems, ESOP '2000*, Berlin, Germany, Lecture Notes in Computer Science 1782, pages 275–289. Springer, Berlin, Germany, March – April 2000.
- [Mau00b] L. Mauborgne. An incremental unique representation for regular trees. *Nordic J. Comput.*, 7(4):290–311, 2000.
- [Mau00c] L. Mauborgne. Tree schemata and fair termination. In J. Palsberg, editor, *Proceedings of the Seventh International Symposium on Static Analysis, SAS '2000*, Santa Barbara, California, United States, Lecture Notes in Computer Science 1824, pages 302–321. Springer, Berlin, Germany, 29 June – 1 July 2000.
- [Mau03] L. Mauborgne. Infinitary relations and their representation. *Science of Computer Programming*, 47(2–3):121–144, May 2003.
- [Mau07] L. Mauborgne. *Analyse statique et domaines abstraits symboliques*. PhD thesis, Mémoire d'habilitation à diriger les recherches en informatique, Université de Paris Dauphine, 12 February 2007.
- [MC92] A. Rauzy M.- Corsini, K. Musumbu. The Mu-calculus over finite domains as an abstract semantics of Prolog. In M. Billaud, P. Castéran, M.-M. Corsini, K. Musumbu, and A. Rauzy, editors, *Proceedings of the Second International Workshop on Static Analysis, WSA '92, Bordeaux, France. BIGRE*, volume 81–82, pages 51–59. IRISA, Rennes, France, 23–25 september 1992.
- [Mel81] C.S. Mellish. The automatic generation of mode December laration for Prolog programs. DAI research paper 163, Department of Artificial Intelligence, University of Edinburgh, Edinburg, Scotland, 1981.
- [Mel85] C.S. Mellish. Some global optimizations for a Prolog program. *Journal of Logic Programming*, 2(1):43–66, 1985.
- [Mel86] C.S. Mellish. Abstract interpretation of Prolog programs. In E. Shapiro, editor, *Third International Conference on Logic Programming, ICLP '86*, London, Great Britain, Lecture Notes in Computer Science 225, pages 463–474. Springer, Berlin, Germany, 14–18 July 1986.
- [Mel87] C.S. Mellish. Abstract interpretation of Prolog programs. In S. Abramsky and C. Hankin, editors, *Abstract Interpretation of December larative Languages*, pages 181–198. Ellis Horwood, Chichester, United Kingdom, 1987.
- [Mer90] N. Mercouff. *Analyse sémantique des communications entre processus de programmes parallèles*. Thèse de l'école polytechnique en informatique, LIX, École polytechnique, Palaiseau, France, 21 september 1990.
- [Mer91] N. Mercouff. An algorithm for analyzing communicating processes. In S. Brookes, M. Main, A. Melton, M. Mislove, and D. Schmidt, editors, *Proceedings of the Seventh International Conference on Mathematical Foundations of Programming Semantics*, Pittsburgh, Pennsylvania, pages 312–325. Springer, Berlin, Germany, 25–28 March 1991.

- [MG91] F. Mesnard and J.-G. Ganascia. À propos du contrôle de la résolution. In *Actes JTASPEFL '91, Bordeaux, France. BIGRE*, 74:125–131, October 1991.
- [MGdlBH93] K. Marriott, M. García de la Banda, and M. Hermenegildo. Analyzing logic programs with dynamic scheduling. In *Conference Record of the Twentieth Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages*, Charleston, South Carolina, 1993. ACM Press, New York, New York, United States.
- [MGS96] M. Müller, T. Glaß, and K. Stroetmann. Automated modular termination proofs for real Prolog programs. In R. Cousot and D.A. Schmidt, editors, *Proceedings of the Third International Symposium on Static Analysis, SAS '96*, Aachen, Germany, 24–26 september 1996, Lecture Notes in Computer Science 1145, pages 220–237. Springer, Berlin, Germany, 1996.
- [MH89] K. Muthukumar and M. Hermenegildo. Determination of variable dependence information through abstract interpretation. In E.L. Lusk and R.A. Overbeek, editors, *Logic Programming, Proceedings of the 1989 North American Conference , NACLP 1989, Volume 1*, Cleaveland, Ohio, United States, pages 166–185. MIT Press, Cambridge, Massachusetts, United States, 16–20 October 1989.
- [MH91] K. Muthukumar and M. Hermenegildo. Combined determination of sharing and freeness of program variables through abstract interpretation. In K. Furukawa, editor, *Proceedings of the Eight International Conference on Logic Programming, ICLP '91*, Paris, France, pages 49–63. MIT Press, Cambridge, Massachusetts, United States, 24–28 June 1991.
- [MH92] K. Muthukumar and M. Hermenegildo. Compile-time derivation of variable dependency using abstract interpretation. *Journal of Logic Programming*, 13(2–3):315–347, July 1992.
- [MHMNH01] S. Muñoz-Hernández, J.J. Moreno-Navarro, and M.V. Hermenegildo. Efficient negation using abstract interpretation. In R. Nieuwenhuis and A. Voronkov, editors, *Proceedings of the Eight International Conference on Logic Programming and Automated Reasoning, LPAR '01*, pages 485–494, Havana, Cuba, Lecture Notes in Computer Science 2250, 3–8 December 2001. Springer, Berlin, Germany.
- [Mid96] S.P. Midkiff. Dependence analysis in parallel loops with  $i \pm k$  subscripts. In C.-H. Huang, P. Sadayappan, U. Banerjee, D. Gelernter, A. Nicolau, and D.A. Padua, editors, *Proceedings of the Eight International Workshop on Languages and Compilers for Parallel Computing, LCPC '95*, Columbus, Ohio, United States, 10–12 August 1995, Lecture Notes in Computer Science 1033, pages 331–345. Springer, Berlin, Germany, 1996.
- [Mig07] M. Might. Logic-flow analysis of higher-order programs. In *Conference Record of the Thirtyfourth Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages*, pages 185–198, Nice, France, 2007. ACM Press, New York, New York, United States.
- [Min] A. Miné. The Octagon abstract domain library. <http://www.di.ens.fr/~mine/oct/>.

- [Min01a] A. Miné. A new numerical abstract domain based on difference-bound matrices. In O. Danvy and A. Filinski, editors, *Proceedings of the Second Symposium PADO '2001, Programs as Data Objects*, Århus, Denmark, 21–23 May 2001, Lecture Notes in Computer Science 2053, pages 155–172. Springer, Berlin, Germany, 2001.
- [Min01b] A. Miné. The octagon abstract domain. In *Analysis, Slicing and Transformation Workshop (AST '01, part of the Eight Working Conference on Reverse Engineering, WCRE '01)*, pages 310–319. IEEE Computer Society Press, Los Alamitos, California, United States, October 2001.
- [Min02] A. Miné. A few graph-based relational numerical abstract domains. In M. Hermenegildo and G. Puebla, editors, *Proceedings of the Ninth International Symposium on Static Analysis, SAS '02*, volume 2477 of *Lecture Notes in Computer Science*, pages 117–132. Springer, Berlin, Germany, 2002.
- [Min04a] A. Miné. Relational abstract domains for the detection of floating-point run-time errors. In D. Schmidt, editor, *Proceedings of the Thirteenth European Symposium on Programming Languages and Systems, ESOP '2004, Barcelona, Spain*, volume 2986 of *Lecture Notes in Computer Science*, pages 3–17. Springer, Berlin, Germany, March 27 – April 4, 2004.
- [Min04b] A. Miné. *Weakly Relational Numerical Abstract Domains*. Thèse de doctorat en informatique, École polytechnique, Palaiseau, France, 6 December 2004.
- [Min05] A. Miné. Weakly relational numerical abstract domains: Theory and application, invited paper. In *First International Workshop on Numerical & Symbolic Abstract Domains, NSAD '05*, Maison Des Polytechniciens, Paris, France, 21 January 2005.
- [Min06a] A. Miné. Field-sensitive value analysis of embedded C programs with union types and pointer arithmetics. In *Proceedings of the ACM SIGPLAN/SIGBED Conference on Languages, Compilers, and Tools for Embedded Systems, LCTES '2006*, pages 54–63. ACM Press, New York, New York, United States, June 2006.
- [Min06b] A. Miné. The octagon abstract domain. *Higher-Order and Symbolic Computation*, 19:31–100, 2006.
- [Min06c] A. Miné. Symbolic methods to enhance the precision of numerical abstract domains. In E.A. Emerson and K.S. Namjoshi, editors, *Proceedings of the Seventh International Conference on Verification, Model Checking and Abstract Interpretation (VMCAI 2006)*, pages 348–363, Charleston, South Carolina, United States, 8–10, January 2006. Lecture Notes in Computer Science 3855, Springer, Berlin, Germany.
- [Mis84] P. Mishra. Towards a theory of types in Prolog. In *Proceedings of the 1984 International Symposium on Logic Programming*, Atlanta City, New Jersey, pages 289–298. IEEE Computer Society Press, Los Alamitos, California, United States, 31 August – 4 September 1984.
- [MJMB89] A. Mariën, G. Janssens, A. Mulders, and M. Bruynooghe. The impact of abstract interpretation on code generation: an experiment in efficiency. In G. Levi and M. Martelli, editors, *Proceedings of the Sixth International Conference on Logic Programming*, Lisbon, Portugal, pages 33–47. MIT Press, Cambridge, Massachusetts, United States, 1989.

- [MK84] P. Mishra and R. Keller. Static inference of properties of applicative programs. In *Conference Record of the Eleventh Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages*, pages 235–244, Salt Lake City, Utah, 1984. ACM Press, New York, New York, United States.
- [MKSH06] M. Marron, D. Kapur, D. Stefanovic, and M.V. Hermenegildo. A static heap analysis for shape and connectivity: Unified memory analysis: The base framework. In G. Almási, C. Cascaval, and Peng Wu, editors, *Proceedings of the Nineteenth International Workshop on Languages and Compilers for Parallel Computing, LCPC '06*, New Orleans, Louisiana, United States, Lecture Notes in Computer Science 4382, pages 345–363. Springer, Berlin, Germany, 2–4 November 2006.
- [MLGP<sup>+</sup>07] E. Mera, P. López-García, G. Puebla, M. Carro, and M.V. Hermenegildo. Towards execution time estimation for logic programs via static analysis and profiling. Technical report, The Computing Research Repository, CoRR abs/cs/0701108, January 2007.
- [MM92] F. Mesnard and M. Morillon. Automatic generation of valid linear measures for CLP(Q) programs. In M. Billaud, P. Castéran, M.-M. Corsini, K. Musumbu, and A. Rauzy, editors, *Proceedings of the Second International Workshop on Static Analysis, WSA '92, Bordeaux, France. BIGRE*, volume 331–338, pages 29–34. IRISA, Rennes, France, 23–25 september 1992.
- [MN83] A. Mycroft and F. Nielson. Strong abstract interpretation using power domains (extended abstract). In J. Diaz, editor, *Tenth International Colloquium on Automata, Languages and Programming, Barcelona, Spain*, Lecture Notes in Computer Science 154, pages 536–547. Springer, Berlin, Germany, 18–22 July 1983.
- [Mog96] T. Mogensen. A semantics-based determinacy analysis for prolog with cut. In D. Bjørner, M. Broy, and I.V. Pottosin, editors, *Proceedings of the Perspectives of System Informatics, Second International Andrei Ershov Memorial Conference*, Akademgorodok, Novosibirsk, Russia, Lecture Notes in Computer Science 1181, pages 374–385. Springer, Berlin, Germany, 25–28 June 1996.
- [Mon91] B. Monsuez. An attempt to find polymorphic types by abstract interpretation. *Actes JTASPEFL '91, Bordeaux, France. BIGRE*, 74:18–26, October 1991.
- [Mon92a] B. Monsuez. Fractional types. In M. Billaud, P. Castéran, M.-M. Corsini, K. Musumbu, and A. Rauzy, editors, *Proceedings of the Second International Workshop on Static Analysis, WSA '92, Bordeaux, France. BIGRE*, volume 81–82, pages 274–284. IRISA, Rennes, France, 23–25 september 1992.
- [Mon92b] B. Monsuez. Polymorphic typing by abstract interpretation. In R. Shyamasundar, editor, *Proceedings of the Twelfth Foundations of Software Technology and Theoretical Computer Science Conference*, pages 127–138, New Delhi, India, 18–20 December 1992, Lecture Notes in Computer Science 652, 1992. Springer, Berlin, Germany.
- [Mon93a] B. Monsuez. Polymorphic types and widening operators. In P. Cousot, M. Falaschi, G. Filé, and A. Rauzy, editors, *Proceedings of the Third International Workshop on Static Analysis, WSA '93, Padova, Italy*, Lecture Notes in Computer Science 724, pages 267–281. Springer, Berlin, Germany, 22–24 september 1993.

- [Mon93b] B. Monsuez. Polymorphic typing for call-by-name semantics. In D. Bjørner, M. Broy, and I.V. Pottosin, editors, *Proceedings of the International Conference on Formal Methods in Programming and their Applications*, Akademgorodok, Novosibirsk, Russia, Lecture Notes in Computer Science 735, pages 156–169. Springer, Berlin, Germany, 28 June – 2 July 1993.
- [Mon94] B. Monsuez. *Typage par Interprétation Abstraite*. Thèse de doctorat de l’École polytechnique en informatique, École polytechnique, Palaiseau, France, 13 February 1994.
- [Mon95a] B. Monsuez. System F and abstract interpretation. In A. Mycroft, editor, *Proceedings of the Second International Symposium on Static Analysis, SAS ’95*, Glasgow, Scotland, 25–27 september 1995, Lecture Notes in Computer Science 983, pages 279–295. Springer, Berlin, Germany, 1995.
- [Mon95b] B. Monsuez. Using abstract interpretation to define a strictness type inference system. In *Proceedings of the ACM Symposium on Partial Evaluation and Semantics-Based Program Manipulation, PEPM ’95*, La Jolla, California, pages 122–133. ACM Press, New York, New York, United States, 21–23 June 1995.
- [Mon98] D. Monniaux. Réalisation mécanisée d’interpréteurs abstraits. Rapport de stage, DEA “programmation : sémantique, preuves et langages”, École polytechnique, École normale supérieure & Université Paris VI, VII & IX, France, July 1998.
- [Mon99] D. Monniaux. Abstracting cryptographic protocols with tree automata. In A. Cortesi and G. Filé, editors, *Proceedings of the Sixth International Symposium on Static Analysis, SAS ’99*, Venice, Italy, 22–24 september 1999, Lecture Notes in Computer Science 1694, pages 149–163. Springer, Berlin, Germany, 1999.
- [Mon00] D. Monniaux. Abstract interpretation of probabilistic semantics. In J. Palsberg, editor, *Proceedings of the Seventh International Symposium on Static Analysis, SAS ’2000*, Santa Barbara, California, United States, Lecture Notes in Computer Science 1824, pages 322–339. Springer, Berlin, Germany, 29 June – 1 July 2000.
- [Mon01a] D. Monniaux. An abstract analysis of the probabilistic termination of programs. In P. Cousot, editor, *Proceedings of the Eight International Symposium on Static Analysis, SAS ’01*, Paris, France, Lecture Notes in Computer Science 2126, pages 111–127. Springer, Berlin, Germany, 16–18 July 2001.
- [Mon01b] D. Monniaux. An abstract Monte-Carlo method for the analysis of probabilistic programs (extended abstract). In *Conference Record of the Twentyeighth Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages*, pages 93–101, London, Great Britain, January 2001. ACM Press, New York, New York, United States.
- [Mon01c] D. Monniaux. Backwards abstract interpretation of probabilistic programs. In D. Sands, editor, *Proceedings of the Tenth European Symposium on Programming Languages and Systems, ESOP ’2001*, Genova, Italy, 2–6 April 2001, Lecture Notes in Computer Science 2028, pages 367–382. Springer, Berlin, Germany, 2001.
- [Mon03a] D. Monniaux. Abstract interpretation of programs as Markov decision processes. In R. Cousot, editor, *Proceedings of the Tenth International Symposium on Static Analysis, SAS ’03*, volume 2694 of *Lecture Notes in Computer Science*, pages 237–254, San Diego, California, June 2003. Springer, Berlin, Germany.

- [Mon03b] D. Monniaux. Abstract interpretation of programs as Markov decision processes. *Science of Computer Programming*, 58(1–2):179–205, October 2003.
- [Mon03c] D. Monniaux. Abstraction of expectation functions using Gaussian distributions. In L. Zuck, P. Attie, A. Cortesi, and S. Mukhopadhyay, editors, *Proceedings of the Fourth International Conference on Verification, Model Checking and Abstract Interpretation (VMCAI 2003)*, pages 161–173, New York, New York, United States, 9–11 January 2003. Lecture Notes in Computer Science 2575, Springer, Berlin, Germany.
- [MR85] P. Mishra and U. Reddy. Declaration-free type checking. In *Proceedings of the Twelfth Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages*, pages 7–21. ACM Press, New York, New York, United States, January 1985.
- [MR05] L. Mauborgne and X. Rival. Trace partitioning in abstract interpretation based static analyzer. In M. Sagiv, editor, *Proceedings of the Fourteenth European Symposium on Programming Languages and Systems, ESOP ’2005, Edinburg, Scotland*, volume 3444 of *Lecture Notes in Computer Science*, pages 5–20. Springer, Berlin, Germany, April 2—10, 2005.
- [MRB92] F. Malésieux, O. Ridoux, and P. Boizumault. Abstract compilation of Lambda-Prolog. In J. Jaffar, editor, *Joint International Conference and Symposium on Logic Programming, JICSLP ’98*, Manchester, United Kingdom, pages 130–144. MIT Press, Cambridge, Massachusetts, United States, 15–19 June 1992.
- [MRF<sup>+</sup>02a] R. Manevich, G. Ramalingam, J. Field, D. Goyal, and M. Sagiv. Compactly representing first-order structures for static analysis. In M. Hermenegildo and G. Puebla, editors, *SAS’02*, volume 2477 of *Lecture Notes in Computer Science*, pages 196–212. Springer, Berlin, Germany, 2002.
- [MRF<sup>+</sup>02b] R. Manevich, G. Ramalingam, J. Field, D. Goyal, and S. Sagiv. Compactly representing first-order structures for static analysis. In M. Hermenegildo and G. Puebla, editors, *Proceedings of the Ninth International Symposium on Static Analysis, SAS ’02*, volume 2477 of *Lecture Notes in Computer Science*, pages 196–212, Madrid, Spain, september 2002. Springer, Berlin, Germany.
- [MRS02] M.O. Möller, H. Rueß, and M. Sorea. Predicate abstraction for dense real-time systems. *Electronic Notes in Theoretical Computer Science*, 65(6), 2002. <http://www.elsevier.com/locate/entcs/volume65.html>.
- [MS88a] K. Marriott and H. Søndergaard. Bottom-up abstract interpretation of logic programs. In R. Kowalski and K. Bowen, editors, *Proceedings of the Fifth International Conference and Symposium on Logic Programming, Volume 1*, Seattle, Washington, United States, pages 733–748. MIT Press, Cambridge, Massachusetts, United States, 15–19 August 1988.
- [MS88b] K. Marriott and H. Søndergaard. On describing success patterns of logic programs. Technical report 88/12, Department of Computer Science, University of Melbourne, Melbourne, Australia, 1988.
- [MS89] K. Marriott and H. Søndergaard. Semantics-based dataflow analysis of logic programs. In G.X. Ritter, editor, *Information Processing 89*, pages 601–606. Elsevier Science Publishers B.V., Amsterdam, The Netherlands, 1989.

- [MS90] K. Marriott and H. Søndergaard. Analysis of constraint logic programs. In S.K. Debray and M.V. Hermenegildo, editors, *Logic Programming, Proceedings of the 1997 North American Conference , NACLP 1997*, Austin, Texas, United States, pages 532–547. MIT Press, Cambridge, Massachusetts, United States, 29 October – 1 November 1990.
- [MS92] K. Marriott and H. Søndergaard. Bottom-up dataflow analysis of normal logic programs. *Journal of Logic Programming*, 13(2–3):181–204, July 1992.
- [MS93] K. Marriott and H. Søndergaard. On propagation-based analysis of logic programs. In S. Michaylov and W. Winsborough, editors, *Proceedings of the International Symposium on Logic Programming, ILPS ’1993 Workshop on Global Compilation, Vancouver, Canada*, pages 47–65, 1993.
- [MS95] A. Mycroft and K.L. Solberg. Uniform PERs and comportment analysis. In M.V. Hermenegildo and S.D. Swierstra, editors, *Proceedings of the Seventh International Symposium on Programming Language Implementation and Logic Programming, PLILP ’95*, Utrecht, The Netherlands, 20–22, september 1995, Lecture Notes in Computer Science 982, pages 169–187. Springer, Berlin, Germany, 1995.
- [MS06a] M. Might and O. Shivers. Environment analysis via Delta CFA. In *Conference Record of the Thirtythird Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages*, pages 127–140, Charleston, South Carolina, 2006. ACM Press, New York, New York, United States.
- [MS06b] M. Might and O. Shivers. Improving flow analyses via Gamma CFA: abstract garbage collection and counting. In J.H. Reppy and J.L. Lawall, editors, *Proceedings of the Eleventh ACM SIGPLANInternational Conference on Logic Programming, ICFP ’2006*, pages 13–25, Portland, Oregon, United States, 16–21 september 2006. ACM Press, New York, New York, United States.
- [MS07] M. Might and O. Shivers. Analyzing the environment structure of higher-order languages using frame strings. *Theoretical Computer Science*, 375(1–3):137–168, 2007.
- [MSD90] K. Marriott, H. Søndergaard, and P. Dart. A characterization of non-floundering logic programs. In S.K. Debray and M.V. Hermenegildo, editors, *Logic Programming, Proceedings of the 1997 North American Conference , NACLP 1997*, Austin, Texas, United States, pages 662–680. MIT Press, Cambridge, Massachusetts, United States, 29 October – 1 November 1990.
- [MSHK07] M. Marron, . Stefanovic, M.V. Hermenegildo, and D. Kapur. Heap analysis in the presence of collection libraries. In M. Das and D. Grossman, editors, *Proceedings of the Seventh ACM SIGPLAN-SIGSOFT Workshop on Program Analysis for Software Tools and Engineering, PASTE ’01*, pages 31–36, San Diego, California, United States, 13–14 June 2007. ACM Press, New York, New York, United States.
- [MSJ94] K. Marriott, H. Søndergaard, and N. Jones. Denotational abstract interpretation of logic programs. *ACM Transactions on Programming Languages and Systems*, 16(3):607–648, May 1994.

- [MT95a] E. Marchiori and F. Teusink. Proving termination of logic programs with delay declarations. In J.W. Lloyd, editor, *Proceedings of the International Symposium on Logic Programming, ILPS '1995*, Portland, Oregon, United States, pages 447–461. MIT Press, Cambridge, Massachusetts, United States, 4–7 December 1995.
- [MT95b] B.C. Massey and E. Tick. Modes of comprehension: Mode analysis of arrays and array comprehensions. In M.V. Hermenegildo and S.D. Swierstra, editors, *Proceedings of the Seventh International Symposium on Programming Language Implementation and Logic Programming, PLILP '95*, Utrecht, The Netherlands, 20–22, september 1995, Lecture Notes in Computer Science 982, pages 207–222. Springer, Berlin, Germany, 1995.
- [MU87] H. Mannila and E. Ukkonen. Flow analysis of Prolog programs. In *Proceedings of the 1987 International Symposium on Logic Programming*, San Francisco, California, pages 205–214. IEEE Computer Society Press, Los Alamitos, California, United States, 31 August – 4september 1987.
- [Mul93] A. Mulkers. *Live Data Structures in Logic Programs, Derivation by Means of Abstract Interpretation*, volume 675 of *Lecture Notes in Computer Science*, page 220. Springer, Berlin, Germany, 1993.
- [MWB90] A. Mulkers, W. Winsborough, and M. Bruynooghe. Analysis of shared data structures for compile-time garbage collection in logic programs. In D.H.D. Warren and P. Szeredi, editors, *Proceedings of the Seventh International Conference on Logic Programming, ICLP '90*, Jerusalem, Israel, pages 747–762. MIT Press, Cambridge, Massachusetts, United States, June 1990.
- [Myc80] A. Mycroft. The theory and practice of transforming call-by-need into call-by-value. In B. Robinet, editor, *Proceedings of the Fourth International Symposium on Programming*, Paris, France, 22–24 April 1980, Lecture Notes in Computer Science 83, pages 270–281. Springer, Berlin, Germany, 1980.
- [Myc81] A. Mycroft. *Abstract Interpretation and Optimising Transformations for Applicative Programs*. Ph.D. Dissertation, CST-15-81, Department of Computer Science, University of Edinburgh, Edinburg, Scotland, December 1981.
- [Myc93] A. Mycroft. Completeness and predicate-based abstract interpretation. In *Proceedings of the ACM Symposium on Partial Evaluation and Semantics-Based Program Manipulation, PEPM '93*, Copenhagen, Denmark, 14–16 June 1993, pages 80–87. ACM Press, New York, New York, United States, 1993.
- [MYRS05] R. Manevich, E. Yahav, G. Ramalingam, and S. Sagiv. Predicate abstraction and canonical abstraction for singly-linked lists. In R. Cousot, editor, *Proceedings of the Sixth International Conference on Verification, Model Checking and Abstract Interpretation (VMCAI 2005)*, page 181198, Paris, France, 17–19 January 2005. Lecture Notes in Computer Science 3385, Springer, Berlin, Germany.
- [Nau63] P. Naur. The design of the GIER ALGOL compiler. *BIT*, 3:124–140 and 145–166, 1963.
- [Nau65] P. Naur. Checking of operand types in ALGOL compilers. *BIT*, 5:151–163, 1965.

- [NBH05] J. Navas, F. Bueno, and M.V. Hermenegildo. A study of set-sharing analysis via clique. In A. Serebrenik and S. Muñoz-Hernández, editors, *Proceedings of the Fifteenth International Workshop on Logic Programming Environments, WLPE 05*, pages 31–45, Sitges (Barcelona), Spain, 5 October 2005.
- [NBH06] J. Navas, F. Bueno, and M.V. Hermenegildo. Efficient top-down set-sharing analysis using cliques. In Pascal Van Hentenryck, editor, *Proceedings of the Eight International Symposium Practical Aspects of Declarative Languages, PADL '2006*, Charleston, South Carolina, United States, 9–10 January 2006, Lecture Notes in Computer Science 3819, pages 183–198. Springer, Berlin, Germany, 2006.
- [NBH07] J. Navas, F. Bueno, and M.V. Hermenegildo. A study of set-sharing analysis via cliques. Technical report, The Computing Research Repository, CoRR abs/cs/0508112, 2007.
- [Nie82] F. Nielson. A denotational framework for data flow analysis. *Acta Informatica*, 18:265–287, 1982.
- [Nie86] F. Nielson. Abstract interpretation of denotational definitions (a survey). In B. Monien and G. Vidal-Naquet, editors, *Proceedings of the Third Annual Symposium on Theoretical Aspects of Computer Science, STACS '86*, Orsay, France, Lecture Notes in Computer Science 210, pages 1–20. Springer, Berlin, Germany, 16–18 January 1986.
- [Nie87] F. Nielson. Strictness analysis and denotational abstract interpretation. In *Conference Record of the Fourteenth Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages*, pages 120–131, München, Germany, 1987. ACM Press, New York, New York, United States.
- [Nie88] F. Nielson. Strictness analysis and denotational abstract interpretation. *Information and Computation*, 76(1):29–92, 1988.
- [Nie89] F. Nielson. Two-level semantics and abstract interpretation. *Theoretical Computer Science — Fundamental Studies*, 69:117–242, 1989.
- [Nie96] F. Nielson. Semantics-directed program analysis: A tool-maker's perspective. In R. Cousot and D.A. Schmidt, editors, *Proceedings of the Third International Symposium on Static Analysis, SAS '96*, Aachen, Germany, 24–26 September 1996, Lecture Notes in Computer Science 1145, pages 2–21. Springer, Berlin, Germany, 1996.
- [Nil88] U. Nilsson. Towards a framework for the abstract interpretation of logic programs. In P. Deransart, B. Lorho, and J. Małuszyński, editors, *Proceedings of the First International Workshop Programming Language Implementation and Logic Programming, PLILP '88*, pages 68–82. Springer, Berlin, Germany, Orléans, France, Lecture Notes in Computer Science 348, 16–18 May 1988.
- [Nil90] U. Nilsson. Systematic semantic approximations of logic programs. In P. Deransart and J. Małuszyński, editors, *Proceedings of the Second International Workshop Programming Language Implementation and Logic Programming, PLILP '90*, pages 293–306. Springer, Berlin, Germany, Linköping, Sweden, Lecture Notes in Computer Science 456, 20–22 August 1990.
- [Nil91] U. Nilsson. Abstract interpretation: A kind of magic. In J. Małuszyński and M. Wirsing, editors, *Proceedings of the Third International Symposium on Programming Language Implementation and Logic Programming, PLILP '91*, pages 299–310. Springer, Berlin, Germany, Passau, Germany, Lecture Notes in Computer Science 528, 26–28 August 1991.

- [NMLGH07] J. Navas, E. Mera, P. López-García, and M.V. Hermenegildo. User-definable resource bounds analysis for logic programs. In V. Dahl and I. Niemelä, editors, *Twentythird International Conference on Logic Programming, ICLP '07*, volume 4670 of *Lecture Notes in Computer Science*, pages 348–363, Porto, Portugal, 8–13 september 2007.
- [NN88] H.R. Nielson and F. Nielson. Automatic binding time analysis for a typed  $\lambda$ -calculus. *Science of Computer Programming*, 10:139–176, 1988.
- [NN92] H.R. Nielson and F. Nielson. The tensor product in Wadler's analysis of lists. In B. Krieg-Brückner, editor, *Proceedings of the Fourth European Symposium on Programming Languages and Systems, ESOP '92*, Rennes, France, Lecture Notes in Computer Science 582, pages 351–370. Springer, Berlin, Germany, 26–28 February 1992.
- [NN93] H.R. Nielson and F. Nielson. Finiteness conditions for strictness analysis. In P. Cousot, M. Falaschi, G. Filé, and A. Rauzy, editors, *Proceedings of the Third International Workshop on Static Analysis, WSA '93*, Padova, Italy, Lecture Notes in Computer Science 724, pages 194–205. Springer, Berlin, Germany, 22–24 september 1993.
- [Oga99] M. Ogawa. Automatic verification based on abstract interpretation. In A. Middeldorp and T. Sato, editors, *Fourth Fuji International Symposium on Functional and Logic Programming, FLOPS '99*, Tsukuba, Japan, 11–13 November 1999, Lecture Notes in Computer Science 1722, pages 131–146. Springer, Berlin, Germany, 1999.
- [PAH05a] G. Puebla, E. Albert, and M.V. Hermenegildo. A generic framework for the analysis and specialization of logic programs. In M. Gabbrielli and G. Gupta, editors, *Proceedings of the Twentyfirst International Conference on Logic Programming, ICLP '93, Sitges, Spain*, volume 3668 of *Lecture Notes in Computer Science*, pages 407–409. Springer, Berlin, Germany, 2–5 October 2005.
- [PAH05b] G. Puebla, E. Albert, and M.V. Hermenegildo. A generic framework for the analysis and specialization of logic programs. In A. Serebrenik and S. Muñoz-Hernández, editors, *Proceedings of the Fifteenth International Workshop on Logic Programming Environments, WLPE 05*, pages 31–45, Sitges (Barcelona), Spain, 5 October 2005.
- [PAH06] G. Puebla, E. Albert, and M.V. Hermenegildo. Abstract interpretation with specialized definitions. In Kwangkeun Yi, editor, *Proceedings of the Thirteenth International Symposium on Static Analysis, SAS '06*, volume 4134 of *Lecture Notes in Computer Science*, pages 107–126, Seoul, Korea, 29–31 August 2006. Springer, Berlin, Germany.
- [PAH07] G. Puebla, E. Albert, and M.V. Hermenegildo. A generic framework for the analysis and specialization of logic programs. Technical report, The Computing Research Repository, CoRR abs/cs/0508111, 2007.
- [Pal93] J. Palsberg. Correctness of binding-time analysis. *Journal of Functional Programming*, 3(3):347–363, 1993.
- [PBH98] G. Puebla, F. Bueno, and M.V. Hermenegildo. A framework for assertion-based debugging in constraint logic programming. In M.J. Maher and J.-F. Puget, editors, *Proceedings of the FOURTH International Conference on Principles and Practice of Constraint Programming – CP98, Pisa, Italy*, volume 1520 of *Lecture Notes in Computer Science*, page 472. Springer, Berlin, Germany, 26–30 October 1998.

- [PBN07] M. Pistoia, A. Banerjee, and D. Naumann. Beyond stack inspection: A unified access-control and information-flow security model. In *Proceedings of the 2007 IEEE Symposium on Security and Privacy (S&P 2007), Oakland, California, United States*, pages 149–163. IEEE Computer Society Press, Los Alamitos, California, United States, 20–23 May 2007.
- [PCH<sup>+</sup>04] G. Puebla, J. Correas, M.V. Hermenegildo, F. Bueno, M.J. García de la Banda, K. Marriott, and P.J. Stuckey. A generic framework for context-sensitive analysis of modular programs. In M. Bruynooghe and Kung-Kiu Lau, editors, *Program Development in Computational Logic 2004: A Decade of Research Advances in Logic-Based Program Development*, volume 3049 of *Lecture Notes in Computer Science*, pages 233–260. Springer, Berlin, Germany, 2004.
- [PCJD07] M. Dalla Preda, M. Christodorescu, S. Jha, and S. Debray. Semantics-based approach to malware detection. In *Conference Record of the Thirtyfourth Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages*, pages 238–252, Nice, France, 17–19 January 2007. ACM Press, New York, New York, United States.
- [PCPH06] P. Pietrzak, J. Correas, . Puebla, and M.V. Hermenegildo. Context-sensitive multivariant assertion checking in modular programs. In M. Hermann and A. Voronkov, editors, *Proceedings of the Thirteenth International Conference on Logic Programming and Automated Reasoning, LPAR '06*, pages 392–406, Phnom Penh, Cambodia, Lecture Notes in Computer Science 4246, 13–17 November 2006. Springer, Berlin, Germany.
- [PDL92] A. Parrain, P. Devienne, and P. Lebègue. Towards optimization of full Prolog programs guided by abstract interpretation. In M. Billaud, P. Castéran, M.-M. Corsini, K. Musumbu, and A. Rauzy, editors, *Proceedings of the Second International Workshop on Static Analysis, WSA '92, Bordeaux, France. BIGRE*, volume 81–82, pages 295–303. IRISA, Rennes, France, 23–25 september 1992.
- [Per06] S. Perdrix. *Modèles formels du calcul quantique : ressources, machines abstraites et calcul par mesure*. PhD thesis, Institut National Polytechnique de Grenoble, Laboratoire Leibniz, 2006.
- [PFKS05] M. Pistoia, R.J. Flynn, L. Koved, and V.C. Sreedhar. Interprocedural analysis for privileged code placement and tainted variable detection. In A.P. Black, editor, *Proceedings of the Nineteenth European Conference on Object-Oriented Programming, ECOOP '05*, Glasgow, United Kingdom, 25–29 July 2005, Lecture Notes in Computer Science 3586, pages 362–386. Springer, Berlin, Germany, 2005.
- [PG92] Young Gil Park and Benjamin Goldberg. Escape analysis on lists. In *Proceedings of the ACM SIGPLAN '92 Conference on Programming Language Design and Implementation (PLDI). ACM SIGPLAN Notices 31(5)*, pages 116–127, San Francisco, California, United States, 21–24, May 1992. ACM Press, New York, New York, United States.
- [PG05a] M. Dalla Preda and R. Giacobazzi. Control code obfuscation by abstract interpretation. In *Proceedings of the Third IEEE International Conference on Software Engineering and Formal Methods, SEFM '05*, Koblenz, Germany, 2005. IEEE Computer Society Press, Los Alamitos, California, United States.

- [PG05b] M. Dalla Preda and R. Giacobazzi. Semantic-based code obfuscation by abstract interpretation. In L. Caires, G.F. Italiano, L. Monteiro, C. Palamidessi, and M. Yung, editors, *Proceedings of the Thirtysecond International Colloquium International Colloquium on Automata, Languages and Programming '05*, volume 3580 of *Lisbon, Portugal, Lecture Notes in Computer Science*, pages 1325–1336. Springer, Berlin, Germany, 11–15 July 2005.
- [PH96a] R. Puebla and M. Hermenegildo. Automatic optimization of dynamic scheduling in logic programs. In H. Kuchen and D.S. Swierstra, editors, *Proceedings of the Eight International Symposium on Programming Language Implementation and Logic Programming, PLILP '96*, pages 475–476. Springer, Berlin, Germany, Aachen, Germany, 24–27 september 1996, Lecture Notes in Computer Science 1140, 1996.
- [PH96b] R. Puebla and M.V. Hermenegildo. Optimized algorithms for incremental analysis of logic programs. In R. Cousot and D.A. Schmidt, editors, *Proceedings of the Third International Symposium on Static Analysis, SAS '96*, Aachen, Germany, 24–26 september 1996, Lecture Notes in Computer Science 1145, pages 270–284. Springer, Berlin, Germany, 1996.
- [PH99a] G. Puebla and M.V. Hermenegildo. Abstract multiple specialization and its application to program parallelization. *Journal of Logic Programming*, 41(2–3):279–316, 1999.
- [PH99b] G. Puebla and M.V. Hermenegildo. Abstract specialization and its applications. In *Proceedings of the ACM Symposium on Partial Evaluation and Semantics-Based Program Manipulation, PEPM '03*, San Diego, California, United States, 7 June 2003, pages 29–43. ACM Press, New York, New York, United States, November 1999.
- [PH99c] G. Puebla and M.V. Hermenegildo. Some issues in analysis and specialization of modular Ciao-Prolog programs. *Electronic Notes in Theoretical Computer Science*, 30(2), 1999.
- [PH07] M. Pietrzak and M. Hermenegildo. Automatic binding-related error diagnosis in logic programs. In V. Dahl and I. Niemelä, editors, *Twentythird International Conference on Logic Programming, ICLP '07*, volume 4670 of *Lecture Notes in Computer Science*, pages 333–347, Porto, Portugal, 8–13 september 2007.
- [PHG99] G. Puebla, M.V. Hermenegildo, and J.P. Gallagher. An integration of partial evaluation in a generic abstract interpretation framework. In O. Danvy, editor, *Proceedings of the ACM Symposium on Partial Evaluation and Semantics-Based Program Manipulation, PEPM '99*, San Antonio, Texas, United States, 17–19 June 1999, Technical report BRICS-NS-99-1, pages 75–84. University of Århus, Denmark, 1999.
- [PHW06] A. Di Pierro, C. Hankin, and H. Wiklicky. Abstract interpretation for worst and average case analysis. In T. Reps, M. Sagiv, and J. Bauer, editors, *Program Analysis and Compilation, Theory and Practice: Essays dedicated to Reinhard Wilhelm*, Lecture Notes in Computer Science 4444, pages 160–174. Springer, Berlin, Germany, 2006.
- [Pic05] D. Pichardie. *Interprétation abstraite en logique intuitionniste : extraction d'analyseurs Java certifiés*. PhD thesis, Université de Rennes I, December 2005.

- [PL93] É. Villemonte de la Clergerie P. Lefèvre. How to build quickly an efficient implementation of the domain Prop with DyALog. In M. Ducassé, B. Le Charlier, Y.-J. Lin, and L. Ü. Yalcinalp, editors, *Proceedings of the Fifth Workshop on Logic Programming Environment (LPE 1993)*, Vancouver, British Columbia, Canada, pages 33–38. IRISA, Campus de Beaulieu, F-35042 Rennes Cedex, France, 29–30 October 1993.
- [PL07] M. Pistoia and F. Logozzo. Program analysis for security and privacy. In C. Consel M. Südholz, editor, *Object-Oriented Technology, ECOOP 2006 Workshop Reader, ECOOP 2006 Workshops, Nantes, France, 3–7 July 2006, Final Reports*, volume 4379 of *Lecture Notes in Computer Science*, pages 59–68. Springer, Berlin, Germany, 2007.
- [Plü97] L. Plümer. Automatic termination proofs for prolog programs operating on nonground terms. In K. Ueda V.A. Saraswat, editor, *Proceedings of the 1991 International Symposium International Symposium on Logic Programming, ISLP ’91*, San Diego, California, United States, pages 503–517. MIT Press, Cambridge, Massachusetts, United States, 28 October – 1 November 1997.
- [PM04] É. Payet and F. Mesnard. Non-termination inference for constraint logic programs. In R. Giacobazzi, editor, *Proceedings of the Eleventh International Symposium on Static Analysis, SAS ’04*, Verona, Italy, Lecture Notes in Computer Science 3148, pages 377–392. Springer, Berlin, Germany, 26–28 August 2004.
- [Pod97] A. Podelski. Set-based analysis of logic programs and reactive logic programs (abstract). In J. Małuszyński, editor, *Proceedings of the International Symposium on Logic Programming, ILPS ’1997*, Port Jefferson, Long Island, New York, United States, pages 35–36. MIT Press, Cambridge, Massachusetts, United States, 13–16 October 1997.
- [Pos94] K. Post. Mutually exclusive rules in logic programming. In M. Bruynooghe, editor, *Proceedings of the International Symposium on Logic Programming, ILPS ’1994*, Ithaca, New York, United States, pages 472–486. MIT Press, Cambridge, Massachusetts, United States, 13–17 November 1994.
- [PW94] W. Pugh and D. Wonnacott. Static analysis of upper and lower bounds on dependences and parallelism. *ACM Transactions on Programming Languages and Systems*, 16(4):1248–1278, July 1994.
- [Ran01] F. Ranzato. On the completeness of model checking. In D. Sands, editor, *Proceedings of the Tenth European Symposium on Programming Languages and Systems, ESOP ’2001*, Genova, Italy, 2–6 April 2001, Lecture Notes in Computer Science 2028, pages 137–154. Springer, Berlin, Germany, 2001.
- [RBM99] O. Ridoux, P. Boizumault, and F. Malésieux. Typed static analysis: Application to groundness analysis of PROLOG and lambda-PROLOG. In A. Middeldorp and T. Sato, editors, *Fourth Fuji International Symposium on Functional and Logic Programming, FLOPS ’99*, Tsukuba, Japan, 11–13 November 1999, Lecture Notes in Computer Science 1722, pages 267–28. Springer, Berlin, Germany, 1999.
- [RBR<sup>+</sup>05] N. Rinetzky, J. Bauer, T.W. Reps, S. Sagiv, and R. Wilhelm. A semantics for procedure local heaps and its abstractions. In *Conference Record of the Thirtysecond Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages*, pages 296–309, Long Beach, California, United States, 2005. ACM Press, New York, New York, United States.

- [Red84] U.S. Reddy. Transformation of logic programs into functional programs. In *Proceedings of the 1984 International Symposium on Logic Programming*, Atlantic City, New Jersey, pages 187–196. IEEE Computer Society Press, Los Alamitos, California, United States, February 1984.
- [Rep94] T. Reps. Solving demand versions of interprocedural analysis problems. In P.A. Fritzson, editor, *Proceedings of the Fifth International Conference on Compiler Construction, CC '94*, Edinburg, United Kingdom, Lecture Notes in Computer Science 786, pages 389–403. Springer, Berlin, Germany, April 1994.
- [RG95] B. Rytz and M. Gengler. A polyvariant binding time analysis. In *Proceedings of the ACM Symposium on Partial Evaluation and Semantics-Based Program Manipulation, PEPM '92*, San Francisco, California, United States, pages 21–28. Yale University, Technical report TR YALEU/DCS/RR-90, 19–20 June 1995.
- [RGD05] C. De Roover, K. Gybels, and T. D'Hondt. Towards abstract interpretation for recovering design information. *Proceedings of the First International Workshop on Abstract Interpretation of Object-oriented Languages (AIOOL 2005)*, Electronic Notes in Theoretical Computer Science, 131:15–25, May 2005. <http://www.elsevier.nl/locate/entcs/volume131.html>.
- [Ric90] L. Ricci. *Compilation of Logic Programs for Massively Parallel Systems*. Ph.D. Dissertation: TD-3/90, Dipartimento di Informatica, Università di Pisa, Pisa, Italy, March 1990.
- [Riv03] X. Rival. Abstract interpretation based certification of assembly code. In L. Zuck, P. Attie, A. Cortesi, and S. Mukhopadhyay, editors, *Proceedings of the Fourth International Conference on Verification, Model Checking and Abstract Interpretation (VMCAI 2003)*, pages 41–55, New York, New York, United States, 9–11 January 2003. Lecture Notes in Computer Science 2575, Springer, Berlin, Germany.
- [Riv04a] X. Rival. Invariant translation-based certification of assembly code. *International Journal on Software and Tools for Technology Transfer*, 6(1):15–37, July 2004.
- [Riv04b] X. Rival. Symbolic transfer functions-based approaches to certified compilation. In *Conference Record of the Thirtyfirst Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages*, pages 1–13, Venice, Italy, 2004. ACM Press, New York, New York, United States.
- [Riv05a] X. Rival. Abstract dependences for alarm diagnosis. In *Proceedings of the Third Asian Symposium on Programming Languages and Systems, APLAS '2005*, pages 347–363, Tsukuba, Japan, 3–5 November 2005. Lecture Notes in Computer Science 3780, Springer, Berlin, Germany.
- [Riv05b] X. Rival. *Traces Abstraction in Static Analysis and Program Transformation*. Thèse de doctorat en informatique, École polytechnique, Palaiseau, France, 21 October 2005.
- [RLS<sup>+</sup>01] B.G. Ryder, W. Landi, P.A. Stocks, S. Zhang, and R. Altucher. A schema for interprocedural side effect analysis with pointer aliasing. *ACM Transactions on Programming Languages and Systems*, 2001. To appear.

- [RNN00] H. Riis Nielson and F. Nielson. Shape analysis for mobile ambients. In *Conference Record of the Twentyseventh Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages*, pages 142–154, Boston, Massachusetts, January 2000. ACM Press, New York, New York, United States.
- [RP96] E. Rohwedder and F. Pfenning. Mode and termination checking for higher-order logic programs. In H. Riis Nielson, editor, *Proceedings of the Sixth European Symposium on Programming Languages and Systems, ESOP '96*, Linköping, Sweden, Lecture Notes in Computer Science 1058, pages 298–310. Springer, Berlin, Germany, 22–26 April 1996.
- [RPHR<sup>+</sup>07] N. Rinetzky, A. Poetzsch-Heffter, G. Ramalingam, M. Sagiv, and . Yahav. Modular shape analysis for dynamically encapsulated programs. In R. De Nicola, editor, *Proceedings of the Sixteenth European Symposium on Programming Languages and Systems, ESOP '07*, volume 4421 of *Lecture Notes in Computer Science*, pages 220–236, Braga, Portugal, 24 March – 1 April 2007. Springer, Berlin, Germany.
- [RS95] M.R K. Krishna Rao and R.K. Shyamasundar. Unification-free execution of well-moded and well-typed Prolog programs. In A. Mycroft, editor, *Proceedings of the Second International Symposium on Static Analysis, SAS '95*, Glasgow, United Kingdom, 25–27 september 1995, Lecture Notes in Computer Science 983, pages 243–260. Springer, Berlin, Germany, 1995.
- [RSD00] F. Randimbivololona, J. Souyris, and A. Deutsch. Improving avionics software verification cost-effectiveness: Abstract interpretation based technology contribution. In *Proceedings DASIA 2000 – DAta Systems In Aerospace*, Montreal, Canada. ESA Publications, 22–26 May 2000.
- [RT02] F. Ranzato and F. Tapparo. Making abstract model checking strongly preserving. In M. Hermenegildo and G. Puebla, editors, *Proceedings of the Ninth International Symposium on Static Analysis, SAS '02*, volume 2477 of *Lecture Notes in Computer Science*, pages 411–427, Madrid, Spain, september 2002. Springer, Berlin, Germany.
- [RT04a] F. Ranzato and F. Tapparo. Generalized strong preservation by abstract interpretation. Technical report, The Computing Research Repository, CoRR cs.LO/0401016, 2004.
- [RT04b] F. Ranzato and F. Tapparo. Strong preservation as completeness in abstract interpretation. In D. Schmidt, editor, *Proceedings of the Thirteenth European Symposium on Programming Languages and Systems, ESOP '04*, volume 2986 of *Lecture Notes in Computer Science*, pages 18–32, Barcelona, Spain, March 29 – April 2 2004. Springer, Berlin, Germany.
- [RT05] F. Ranzato and F. Tapparo. An abstract interpretation perspective on linear vs. branching time. In *Proceedings of the Third Asian Symposium on Programming Languages and Systems, APLAS '2005*, pages 69–85, Tsukuba, Japan, 3–5 November 2005. Lecture Notes in Computer Science 3780, Springer, Berlin, Germany.
- [RT06a] F. Ranzato and F. Tapparo. Generalizing the Paige-Tarjan algorithm by abstract interpretation. Technical report, The Computing Research Repository, CoRR abs/cs/0612120, 2006.
- [RT06b] F. Ranzato and F. Tapparo. Incompleteness of states w.r.t. traces in model checking. *Information and Computation*, 204(3):376–407, 2006.

- [RT06c] F. Ranzato and F. Tapparo. Strong preservation of temporal fixpoint-based operators by abstract interpretation. In A.E. Emerson and K.S. Namjoshi, editors, *Proceedings of the Seventh International Conference on Verification, Model Checking and Abstract Interpretation (VMCAI 2006)*, pages 332–347, Charleston, South Carolina, United States, 8–10 January 2006. Lecture Notes in Computer Science 3855 , Springer, Berlin, Germany.
- [RT07a] F. Ranzato and F. Tapparo. An efficient simulation equivalence algorithm based on abstract interpretation. Technical report, The Computing Research Repository, CoRR abs/0709.4118, 2007.
- [RT07b] F. Ranzato and F. Tapparo. Generalized strong preservation by abstract interpretation. *Journal of Logic and Computation*, 17(1):157197, 2007.
- [RT07c] F. Ranzato and F. Tapparo. A new efficient simulation equivalence algorithm. In *Proceedings of the Twentieth Annual IEEE Symposium on Logic in Computer Science, LICS ’2005*, pages 171–180, Wroclaw, Poland, 10–12 July 2007. IEEE Computer Society Press, Los Alamitos, California, United States.
- [Sah91a] D. Sahlin. Determinacy analysis for full Prolog. In P. Hudak and N.D. Jones, editors, *Proceedings of the ACM Symposium on Partial Evaluation and Semantics-Based Program Manipulation, PEPM ’91*, Yale U., New Haven, Connecticut, United States, 17–19 June 1991, ACM SIGPLAN Notices 26(9), pages 210–222. ACM Press, New York, New York, United States, september 1991.
- [Sah91b] D. Sahlin. Determinacy analysis for full Prolog. In P. Hudak and N.D. Jones, editors, *Proceedings of the ACM Symposium on Partial Evaluation and Semantics-Based Program Manipulation, PEPM ’91*, Yale U., New Haven, Connecticut, United States, 17–19 June 1991, ACM SIGPLAN Notices 26(9), pages 23–30. ACM Press, New York, New York, United States, september 1991.
- [SBF99] B. Scholz, J. Blieberger, and T. Fahringer. Symbolic pointer analysis for detecting memory leaks. In *Proceedings of the ACM Symposium on Partial Evaluation and Semantics-Based Program Manipulation, PEPM ’00, ACM SIGPLAN Notices 34(11)*, Boston, Massachusetts, United States, 22–23 January 2000, pages 104–113. ACM Press, New York, New York, United States, November 1999.
- [SC92] R. Sundararajan and J.S. Conery. An abstract interpretation scheme for groundedness, freeness, and sharing analysis of logic programs. In R. Shyamasundar, editor, *Proceedings of the Twelfth Foundations of Software Technology and Theoretical Computer Science Conference*, New Delhi, India, 18–20 December 1992, Lecture Notes in Computer Science 652, pages 203–216. Springer, Berlin, Germany, 1992.
- [Sch98] D.A. Schmidt. Data-flow analysis is model checking of abstract interpretations. In *Conference Record of the Twentyfifth Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages*, pages 38–48, San Diego, California, 19–21January 1998. ACM Press, New York, New York, United States.
- [Sch00] F.B. Schneider. Enforceable security policies. *ACM Transactions on Information and System Security*, 3(1), February 2000.

- [Sch06] D.A. Schmidt. Comparing completeness properties of static analyses and their logics. In N. Kobayashi, editor, *Proceedings of the Fourth Asian Symposium on Programming Languages and Systems, APLAS'2006*, pages 183–199, Sydney, Australia, 8–10 November 2006. Lecture Notes in Computer Science 4279, Springer, Berlin, Germany.
- [Sco97] F. Scozzari. Logical optimality of groundness analysis. In P. Van Hentenryck, editor, *Proceedings of the Fourth International Symposium on Static Analysis, SAS'97*, Paris, France, 8–10 september 1997, Lecture Notes in Computer Science 1302, pages 83–97. Springer, Berlin, Germany, 1997.
- [SD94] D. De Schreye and S. Decorte. Termination of logic programs: The never-ending story. *Journal of Logic Programming*, 19/20:199–260, 1994.
- [Ser94] J. Serra. Morphological filtering: An overview. *Signal Processing*, 38:3–11, 1994.
- [Ser03] A. Serebrenik. Termination analysis of logic programs: Extended abstract. In C. Palamidessi, editor, *Proceedings of the Ninthteenth International Conference on Logic Programming, ICLP'2003*, Mumbai, India, Lecture Notes in Computer Science 2916, pages 507–508. Springer, Berlin, Germany, December 2003.
- [SFM07] H. Seidl, A. Flexeder, and M. Petter. Interprocedurally analysing linear inequality relations. In R. De Nicola, editor, *Proceedings of the Sixteenth European Symposium on Programming Languages and Systems, ESOP'07*, volume 4421 of *Lecture Notes in Computer Science*, pages 284–299, Braga, Portugal, 24 March – 1 April 2007. Springer, Berlin, Germany.
- [SFRW90] M. Sagiv, N. Francez, M. Rodeh, and R. Wilhelm. A logic-based approach to data flow analysis problems. In P. Deransart and J. Małuszyński, editors, *Proceedings of the Second International Workshop Programming Language Implementation and Logic Programming, PLILP'90*, pages 277–292, Linköping, Sweden, Lecture Notes in Computer Science 456, 20–22 August 1990. Springer, Berlin, Germany.
- [SG95] H. Saglam and J.P. Gallagher. Approximating constraint logic programs using polymorphic types and regular descriptions. In M.V. Hermenegildo and S.D. Swierstra, editors, *Proceedings of the Seventh International Symposium on Programming Language Implementation and Logic Programming, PLILP'95*, Utrecht, The Netherlands, 20–22, september 1995, Lecture Notes in Computer Science 982, pages 461–462. Springer, Berlin, Germany, 1995.
- [SGRNN98] K.L. Solberg Gasser, H. Riis Nielson, and F. Nielson. Strictness and totality analysis. *Science of Computer Programming*, 31(1):113–145, May 1998.
- [Shi88] O. Shivers. Control-flow analysis in scheme. In *Proceedings of the ACM SIGPLAN '1988 Conference on Programming Language Design and Implementation (PLDI)*. ACM SIGPLAN Notices 23(7), pages 164–174, Atlanta, Georgia, United States, 22–24 June 1988. ACM Press, New York, New York, United States.
- [Shi91] O. Shivers. The semantics of scheme control-flow analysis. In P. Hudak and N.D. Jones, editors, *Proceedings of the ACM Symposium on Partial Evaluation and Semantics-Based Program Manipulation, PEPM'91*, Yale U., New Haven, Connecticut, United States, 17–19 June 1991, ACM SIGPLAN Notices 26(9), pages 190–198. ACM Press, New York, New York, United States, september 1991.

- [Shi04a] O. Shivers. Higher-order control-flow analysis in retrospect: lessons learned, lessons abandoned. *ACM SIGPLAN Notices*, 39(4):257–269, 2004.
- [Shi04b] O. Shivers. Higher-order control-flow analysis in retrospect: lessons learned, lessons abandoned (with retrospective). In K.S. McKinley, editor, *20 Years of the ACM SIGPLAN Conference on Programming Language Design and Implementation 1979–1999, A Selection*, pages 257–269. ACM Press, New York, New York, United States, 2004.
- [SIH97] M. Shapiro II and S. Horwitz. The effects of the precision of pointer analysis. In P. Van Hentenryck, editor, *Proceedings of the Fourth International Symposium on Static Analysis, SAS ’97*, Paris, France, 8–10 september 1997, Lecture Notes in Computer Science 1302, pages 16–34. Springer, Berlin, Germany, 1997.
- [Sin72] M. Sintzoff. Calculating properties of programs by valuations on specific models. In *Proceedings of an ACM Conference on Proving Assertions about Programs*, Las Cruses, New Mexico, ACM SIGPLAN Notices 7(1):203–207, 6–7 January 1972.
- [SJ03] F. Spoto and T.P. Jensen. Class analyses as abstract interpretations of trace semantics. *ACM Transactions on Programming Languages and Systems*, 25(5):578–630, March 2003.
- [SL99] F. Spoto and G. Levi. Abstract interpretation of Prolog programs. In A.M. Haeberer, editor, *Proceedings of the Seventh International Conference on Algebraic Methodology and Software Technology, AMAST ’98*, Amazonia, Brazil, 4–8 January 1999, Lecture Notes in Computer Science 1548, pages 455–470. Springer, Berlin, Germany, 1999.
- [SMR91] R.C. Sekar, P. Mishra, and I.V. Ramakrishnan. On the power and limitation of strictness analysis based on abstract interpretation. In *Conference Record of the Eighteenth Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages*, pages 37–48, Orlando, Florida, 1991. ACM Press, New York, New York, United States.
- [SNN92] K. Lackner Solberg, H. Riis Nielson, and F. Nielson. Inference systems for binding time analysis. In M. Billaud, P. Castéran, M.-M. Corsini, K. Musumbu, and A. Rauzy, editors, *Proceedings of the Second International Workshop on Static Analysis, WSA ’92, Bordeaux, France. BIGRE*, volume 81–82, pages 247–254. IRISA, Rennes, France, 23–25 september 1992.
- [Soh93] K. Sohn. Static analysis of logic programs. In D. Miller, editor, *Proceedings of the International Symposium on Logic Programming, ILPS ’1993*, Vancouver, British Columbia, Canada, page 635. MIT Press, Cambridge, Massachusetts, United States, 1993.
- [Soh94] K. Sohn. Constraints among argument sizes in logic programs. In *Proceedings of the Thirteenth PODS ’94*, pages 68–76, Minneapolis, Minnesota, 1994. ACM Press, New York, New York, United States.
- [Sol94] K. Lackner Solberg. Strictness and totality analysis. In B. Le Charlier, editor, *Proceedings of the First International Symposium on Static Analysis, SAS ’94*, Namur, Belgium, 20–22 september 1994, Lecture Notes in Computer Science 864, pages 395–407. Springer, Berlin, Germany, 1994.

- [Som87] Z. Somogy. A system of precise modes for logic programs. In J.L. Lassez, editor, *Proceedings of the Fourth International Conference on Logic Programming, Volume 2*, Melbourne, Australia, pages 769–787. MIT Press, Cambridge, Massachusetts, United States, May 1987.
- [Søn86] H. Søndergaard. An application of abstract interpretation of logic programs: Occur check reduction. In B. Robinet and R. Wilhelm, editors, *Proceedings of the European Symposium on Programming Languages and Systems, ESOP '86*, Saarbrücken, Germany, 17-19 March 1986, Lecture Notes in Computer Science 213, pages 327–338. Springer, Berlin, Germany, 1986.
- [Sou04] J. Souyris. Industrial experience of abstract interpretation-based static analyzers. In P. Jacquart, editor, *Building the Information Society*, chapter 4, pages 393–400. Kluwer Academic Publishers, Dordrecht, The Netherlands, 2004.
- [SP03] F. Spoto and E. Poll. Static analysis for JML’s assignable clauses. In *Informal Proceedings of the International Workshop on Foundations of Object-Oriented Languages, Fool 10*, New Orleans, Louisiana, United States, 18 January 2003.
- [SPR90] R.C. Sekar, Shaunak Pawagi, and I.V. Ramakrishnan. Small domains spell fast strictness analysis. In *Conference Record of the Seventeenth Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages*, pages 169–183, San Francisco, California, 1990. ACM Press, New York, New York, United States.
- [SR95] R.C. Sekar and I.V. Ramakrishnan. Fast strictness analysis based on demand propagation. *ACM Transactions on Programming Languages and Systems*, 17(6):896–937, November 1995.
- [SRH96] M. Sagiv, T.W. Reps, and S. Horwitz. Precise interprocedural dataflow analysis with applications to constant propagation. *Theoretical Computer Science*, 167(1&2):131–170, 1996.
- [SRW96] M. Sagiv, T. Reps, and R. Wilhelm. Solving shape-analysis problems in languages with destructive updating. In *Conference Record of the Twentythird Annual ACM SIGPLAN-SIGACT Symposium on Principles of Programming Languages*, pages 16–31, St. Petersburg Beach, Florida, January 1996. ACM Press, New York, New York, United States.
- [SRW00] M. Sagiv, T. Reps, and R. Wilhelm. Shape analysis. In David A. Watt, editor, *Proceedings of the International Conference on Compiler Construction, CC '2000*, Lecture Notes in Computer Science 1781, pages 1–17, Berlin, Germany, 25 March – 2 April 2000. Springer, Berlin, Germany.
- [SS99] A. Sabelfeld and D. Sands. A Per model of secure information flow in sequential programs. In S.D. Swierstra, editor, *Proceedings of the Eight European Symposium on Programming Languages and Systems, ESOP '99, Amsterdam, The Netherlands*, volume 1576 of *Lecture Notes in Computer Science*, pages 40–58. Springer, Berlin, Germany, 22–28 March 1999.
- [SS01a] A. Serebrenik and D. De Schreye. Inference of termination conditions for numerical loops in Prolog. In R. Nieuwenhuis and A. Voronkov, editors, *Proceedings of the Eighth International Conference on Logic Programming and Automated Reasoning, LPAR '01*, pages 654–668, Havana, Cuba, Lecture Notes in Computer Science 2250, 3–8 December 2001. Springer, Berlin, Germany.

- [SS01b] A. Serebrenik and D. De Schreye. Inference of termination conditions for numerical loops in Prolog. In R. Nieuwenhuis and A. Voronkov, editors, *Proceedings of the Eight International Conference on Logic Programming and Automated Reasoning, LPAR '01*, Havana, Cuba, 3–7 December 2001, Lecture Notes in Computer Science 2250, pages 654–668. Springer, Berlin, Germany, 2001.
- [SS02] A. Serebrenik and D. De Schreye. On termination of logic programs with floating point computations. In M.V. Hermenegildo and G. Puebla, editors, *Proceedings of the Ninth International Symposium on Static Analysis, SAS '02*, Madrid, Spain, 17–20 september 2002, Lecture Notes in Computer Science 2477, pages 151–164. Springer, Berlin, Germany, 2002.
- [SS04] D. De Schreye and A. Serebrenik. Inference of termination conditions for numerical loops in Prolog. *Theory and Practice of Logic Programming*, 4(5 & 6), 2004. toappear.
- [SSS97] C. Speirs, Z. Somogyi, and H. Søndergaard. Termination analysis for Mercury. In P. Van Hentenryck, editor, *Proceedings of the Fourth International Symposium on Static Analysis, SAS '97*, Paris, France, 8–10 september 1997, Lecture Notes in Computer Science 1302, pages 160–171. Springer, Berlin, Germany, 1997.
- [SST92] R. Sundararajan, A.V.S. Sastry, and E. Tick. Variable threadedness analysis for concurrent logic programs. In K.R. Apt, editor, *Proceedings of the Joint International Conference and Symposium on Logic Programming, JICSLP '92*, Washington, D.C., United States, pages 493–508. MIT Press, Cambridge, Massachusetts, United States, November 1992.
- [ST84] T. Sato and H. Tamaki. Enumeration of success patterns in logic programs. *Theoretical Computer Science*, 34:227–240, 1984.
- [Ste98] B. Steffen, editor. *A Proof of Burns N-Process Mutual Exclusion Algorithm Using Abstraction*, Lisbon, Portugal, Lecture Notes in Computer Science 1384. Springer, Berlin, Germany, 28 March – 4 April 1998.
- [Str88] J. Stransky. *Analyse sémantique de structures de données dynamiques avec application au cas particulier de langages LISPIens*. Thèse de doctorat en science, Université de Paris-sud, Orsay, France, 28 June 1988.
- [Str92] J. Stransky. A lattice for abstract interpretation of dynamic (LISP-like) structures. *Information and Computation*, 101(1):70–102, November 1992.
- [SV95] D. De Schreye and K. Verschaetse. Deriving linear size relations for logic programs by abstract interpretation. *New Generation Computing*, 13(2):117–154, 1995.
- [SVB92] D. De Schreye, K. Verschaetse, and M. Bruynooghe. A framework for analyzing the termination of definite logic programs with respect to call patterns. In ICOT Staff, editor, *Proceedings of the International Conference on Fifth Generation Computer Systems 92*, Tokyo, Japan, 1–5 June 1992, pages 481–488. IOS Press, Amsterdam, The Netherlands, 1992.
- [Tay89] A. Taylor. Removal of dereferencing and trailing in Prolog compilation. In G. Levi and M. Martelli, editors, *Proceedings of the Sixth International Conference on Logic Programming, ICLP '89*, Lisbon, Portugal, pages 48–60. MIT Press, Cambridge, Massachusetts, United States, June 1989.

- [TFI86] R. Triolet, P. Feautrier, and F. Irigoin. Automatic parallelization of fortran programs in the presence of procedure calls. In B. Robinet and R. Wilhelm, editors, *Proceedings of the European Symposium on Programming Languages and Systems, ESOP '86*, Saarbrücken, Germany, 17-19 March 1986, Lecture Notes in Computer Science 213, pages 210–222. Springer, Berlin, Germany, 1986.
- [TJ92] Y.M. Tang and P. Jouvelot. Control-flow effects for escape analysis. In M. Billaud, P. Castéran, M.-M. Corsini, K. Musumbu, and A. Rauzy, editors, *Proceedings of the Second International Workshop on Static Analysis, WSA '92, Bordeaux, France. BIGRE*, volume 81–82, pages 313–321. IRISA, Rennes, France, 23–25 september 1992.
- [TJ94] Y.M. Tang and P. Jouvelot. Separate abstract interpretation for control-flow analysis. In M. Hagiya and J.C. Mitchell, editors, *Proceedings of the International Conference on Theoretical Aspects of Computer Software, TACS '95, Lecture Notes in Computer Science 789*, Sendai, Japan, pages 224–243. Springer, Berlin, Germany, 19–22 April 1994.
- [TL96] J. Tan and I-P. Lin. Type synthesis for logic programs. In M.J. Maher, editor, *Proceedings of the Joint International Conference and Symposium on Logic Programming, JICSLP '96*, Bonn, Germany, pages 200–214. MIT Press, Cambridge, Massachusetts, United States, 2–6 september 1996.
- [TM04] S. Thompson and A. Mycroft. Abstract interpretation of combinational asynchronous circuits. In R. Giacobazzi, editor, *Proceedings of the Eleventh International Symposium on Static Analysis, SAS '04*, Verona, Italy, Lecture Notes in Computer Science 3148, pages 181–196. Springer, Berlin, Germany, 26–28 August 2004.
- [Tom97] D. Toman. Constraint databases and program analysis using abstract interpretation. In V. Gaede, A. Brodsky, O. Günther, D. Srivastava, V. Vianu, and M. Wallace, editors, *Proceedings of the Second International Workshop on Constraint Database Systems, CDB '97*, Delphi, Greece, 11–12 January 1997, Lecture Notes in Computer Science 1191, pages 303–311. Springer, Berlin, Germany, 1997.
- [TSH<sup>+</sup>03] S. Thesing, J. Souyris, R. Heckmann, F. Randimbivololona, M. Langenbach, R. Wilhelm, and C. Ferdinand. Abstract interpretation-based timing validation of hard real-time avionics software. In *Proceedings of the International Conference on Dependable Systems and Networks (DSN 2003)*, San Francisco, California, United States, pages 625–634. IEEE Computer Society Press, Los Alamitos, California, United States, 22–25 June 2003.
- [TTD97] J.M. Talbot, S. Tison, and P. Devienne. Set-based analysis for logic programming and tree automata. In P. Van Hentenryck, editor, *Proceedings of the Fourth International Symposium on Static Analysis, SAS '97*, Paris, France, 8–10 september 1997, Lecture Notes in Computer Science 1302, pages 127–140. Springer, Berlin, Germany, 1997.
- [Tzo97] S. Tzolovski. Data dependence as abstract interpretations. In P. Van Hentenryck, editor, *Proceedings of the Fourth International Symposium on Static Analysis, SAS '97*, Paris, France, 8–10 september 1997, Lecture Notes in Computer Science 1302, page 366. Springer, Berlin, Germany, 1997.

- [Ued87] K. Ueda. Making exhaustive search programs deterministic, part II. In J.L. Lassez, editor, *Proceedings of the Fourth International Conference on Logic Programming, Volume 2*, Melbourne, Australia, pages 356–375. MIT Press, Cambridge, Massachusetts, United States, May 1987.
- [Ued99] K. Ueda. Linearity analysis of concurrent logic programs. *Electronic Notes in Theoretical Computer Science*, 30(2), 1999.
- [VB99] W. Vanhoof and M. Bruynooghe. Towards modular binding-time analysis for first-order Mercury. *Electronic Notes in Theoretical Computer Science*, 30(2), 1999.
- [VB02] C. Vaucheret and F. Bueno. More precise yet efficient type inference for logic programs. In M. Hermenegildo and G. Puebla, editors, *Proceedings of the Ninth International Symposium on Static Analysis, SAS '02*, volume 2477 of *Lecture Notes in Computer Science*, pages 342–359, Madrid, Spain, september 2002. Springer, Berlin, Germany.
- [VBL04] W. Vanhoof, M. Bruynooghe, and M. Leuschel. Binding-time analysis for Mercury. In M. Bruynooghe and Kung-Kiu Lau, editors, *Program Development in Computational Logic 2004: A Decade of Research Advances in Logic-Based Program Development*, volume 3049 of *Lecture Notes in Computer Science*, pages 189–232. Springer, Berlin, Germany, 2004.
- [VDS91] K. Verschaetse and D. De Schreye. Deriving termination proofs for logic programs, using abstract procedures. In K. Furukawa, editor, *Proceedings of the Eight International Conference on Logic Programming*, Paris, France, pages 301–315. MIT Press, Cambridge, Massachusetts, United States, 24–28 June 1991.
- [VDS92] K. Verschaetse and D. De Schreye. Deriving of linear size relations by abstract interpretation. In M. Bruynooghe and M. Wirsing, editors, *Proceedings of the Fourth International Symposium on Programming Language Implementation and Logic Programming, PLILP '92*, Leuven, Belgium, 26–28 August 1992, Lecture Notes in Computer Science 631, pages 296–310. Springer, Berlin, Germany, 1992.
- [VDS93] K. Verschaetse, S. Decorte, and D. De Schreye. Automatic termination analysis. In K.-K. Lau and T.P. Clement, editors, *Proceedings of the Fifth International Workshop on Logic Program Synthesis and Transformation, LOPSTR '92*, Manchester, United Kingdom, 2–3 July 1992, Workshops in Computing, pages 168–183. Springer, Berlin, Germany, 1993.
- [Véd94] F. Védrine. Galois connection based abstract interpretation for binding time analysis. Rapport de stage, DEA “Informatique, Mathématiques et Applications”, École polytechnique, École Normale Supérieure, Universités de Paris 6, 7 & 11, France, 13 July 1994.
- [Véd95] F. Védrine. Binding-time analysis and strictness analysis by abstract interpretation. In A. Mycroft, editor, *Proceedings of the Second International Symposium on Static Analysis, SAS '95*, Glasgow, United Kingdom, 25–27 september 1995, Lecture Notes in Computer Science 983, pages 400–417. Springer, Berlin, Germany, 1995.
- [Véd00] F. Védrine. *Analyses totales de programmes par l'interprétation abstraite*. Thèse de l'école polytechnique en informatique, École polytechnique, Palaiseau, France, 28 January 2000.

- [Ven96] A. Venet. Abstract cofibred domains: Application to the alias analysis of untyped programs. In R. Cousot and D.A. Schmidt, editors, *Proceedings of the Third International Symposium on Static Analysis, SAS'96*, Aachen, Germany, 24–26 september 1996, Lecture Notes in Computer Science 1145, pages 368–382. Springer, Berlin, Germany, 1996.
- [Ven97] A. Venet. Abstract interpretation of the  $\pi$ -calculus. In M. Dam, editor, *Analysis and Verification of Multiple-Agent Languages, Fifth LOMAPS Workshop*, Stockholom, Sweden, 24–26 June 1996, Lecture Notes in Computer Science 1192, pages 51–75. Springer, Berlin, Germany, 1997.
- [Ven98a] A. Venet. *Analyse statique de systèmes dynamiques de graphes dans les langages dynamiquement typés*. Thèse de l'école polytechnique en informatique, École polytechnique, Palaiseau, France, 7 December 1998.
- [Ven98b] A. Venet. Automatic determination of communication topologies in mobile systems. In G. Levi, editor, *Proceedings of the Fifth International Symposium on Static Analysis, SAS'98*, Pisa, Italy, 14–16 september 1998, Lecture Notes in Computer Science 1503, pages 152–167. Springer, Berlin, Germany, 1998.
- [Ven99] A. Venet. Automatic analysis of pointer aliasing for untyped programs. *Science of Computer Programming, Special Issue on SAS'96*, 35(1):223–248, september 1999.
- [VG90] A. Van Gelder. Deriving constraints among argument sizes in logic programs. In *Proceedings of the Ninth ACM Symposium on Principles of Database Systems*, pages 47–60, Nashville, Tennessee, 1990.
- [vHCLC94] P. van Hentenryck, A. Cortesi, and B. Le Charlier. Type analysis of Prolog using type graphs. In *Proceedings of the ACM SIGPLAN '94 Conference on Programming Language Design and Implementation (PLDI)*. ACM SIGPLAN Notices 29(6), pages 337–348, Orlando, Florida, United States, 20–24 June 1994. ACM Press, New York, New York, United States.
- [VHDLCM93] P. Van Hentenryck, O. Degimbe, B. Le Charlier, and L. Michel. The impact of granularity in abstract interpretation of Prolog (invited paper). In P. Cousot, M. Falaschi, G. Filé, and A. Rauzy, editors, *Proceedings of the Third International Workshop on Static Analysis, WSA'93*, Padova, Italy, Lecture Notes in Computer Science 724, pages 1–14. Springer, Berlin, Germany, 22–24 september 1993.
- [VHU98] J. Vitek, R.N. Horspool, and J.S. Uhl. Compile-time analysis of object-oriented programs. In U. Kastens and P. Pfahler, editors, *Proceedings of the Fourth International Conference on Compiler Construction, CC'98*, Paderborn, Germany, Lecture Notes in Computer Science 641, pages 236–250. Springer, Berlin, Germany, 5–7 October 1998.
- [Vol98] P. Volpe. A first-order language for expressing aliasing and type properties of logic programs. In G. Levi, editor, *Proceedings of the Fifth International Symposium on Static Analysis, SAS'98*, Pisa, Italy, 14–16 september 1998, Lecture Notes in Computer Science 1503, pages 184–199. Springer, Berlin, Germany, 1998.
- [VPP00] W. Visser, S.J. Park, and J. Penix. Using predicate abstraction to reduce object oriented programs for model checking. In *Proceedings of the Third ACM SIGSOFT Workshop on Formal Methods in Software Practice, FMSP 2000*, pages 2–12, Portland, Oregon, United States, 2000. ACM Press, New York, New York, United States.

- [VRD90] P. Van Roy and A.M. Despain. The benefits of global dataflow analysis for an optimizing Prolog compiler. In S.K. Debray and M.V. Hermenegildo, editors, *Logic Programming, Proceedings of the 1997 North American Conference , NACLP 1997*, Austin, Texas, United States, pages 501–515. MIT Press, Cambridge, Massachusetts, United States, 29 October – 1 November 1990.
- [VRDW87] P. Van Roy, B. Demoen, and Y.D. Willems. Improving the execution speed of compiled Prolog with modes, clause selection, and determinism. In H. Ehrig, R. Kowalski, G. Levi, and U. Montanari, editors, *Proceedings of the International Joint Conference on Theory and Practice of Software Development, TAPSOFT '87, Volume 2 (AFISD/CFLP)*, Pisa, Italy, Lecture Notes in Computer Science 250, pages 111–125. Springer, Berlin, Germany, 23–27 March 1987.
- [VS99] S. Verbaeten and D. De Schreye. Termination analysis of tabled logic programs using mode and type information. In A. Middeldorp and T. Sato, editors, *Fourth Fuji International Symposium on Functional and Logic Programming, FLOPS '99*, Tsukuba, Japan, 11–13 November 1999, Lecture Notes in Computer Science 1722, pages 163–178. Springer, Berlin, Germany, 1999.
- [VSS99] S. Verbaeten, K.F. Sagonas, and D. De Schreye. Modular termination proofs for prolog with tabling. In *Proceedings of the International Conference Principles and Practice of Declarative Programming, PPDP '99*, Paris, France, 29 september – 1 October 1999, Lecture Notes in Computer Science 1702, pages 342–359. Springer, Berlin, Germany, 1999.
- [VU84] P. Vataja and E. Ukkonen. Finding temporary terms in Prolog programs. In *Proceedings of the International Conference on Future Generation Computer Systems*, Tokyo, Japan, pages 275–282. ICOT, November 1984.
- [Wad87] P.L. Wadler. Strictness analysis on non-flat domains (by abstract interpretation over finite domains). In S. Abramsky and C. Hankin, editors, *Abstract Interpretation of Declarative Languages*, Computers and their Applications, chapter 12, pages 266–275. Ellis Horwood, Chichester, United Kingdom, 1987.
- [Wær88] A. Wærn. An implementation technique for the abstract interpretation of Prolog. In R. Kowalski and K. Bowen, editors, *Proceedings of the Fifth International Conference and Symposium on Logic Programming, Volume 1*, Seattle, Washington, United States, pages 700–710. MIT Press, Cambridge, Massachusetts, United States, 15–19 August 1988.
- [War77] D.H.D. Warren. Implementing Prolog - compiling predicate logic programs. DAI research reports 39 and 40, Department of Artificial Intelligence, University of Edinburgh, Edinburgh, Scotland, 1977.
- [Weg73] B. Wegbreit. Property extraction in well-founded property sets. Technical report, Center for Research in Computing Technology, Harvard University, Cambridge, Massachusetts, February 1973.
- [WHD88] R. Warren, M. Hermenegildo, and S.K. Debray. On the practicality of global flow analysis of logic programs. In R. Kowalski and K. Bowen, editors, *Proceedings of the Fifth International Conference and Symposium on Logic Programming, Volume 1*, Seattle, Washington, United States, pages 684–699. MIT Press, Cambridge, Massachusetts, United States, 15–19 August 1988.
- [Win88] W. Winsborough. Automatic, transparent parallelization of logic programs at compile time. Technical report 88-14, Department of Computer Science, University of Chicago, Chicago, Illinois, October 1988.

- [WW88] W. Winsborough and A. Wærn. Transparent AND-parallelism in the presence of shared free variables. In R.A. Kowalski and K.A. Bowen, editors, *Proceedings of the Fifth International Conference and Symposium on Logic Programming, Volume 1*, Seattle, Washington, United States, pages 749–764. MIT Press, Cambridge, Massachusetts, United States, 15–19 August 1988.
- [WW96] G. Weyer and W. Winsborough. Annotated structure shape graphs for abstract analysis of Prolog. In H. Kuchen and D.S. Swierstra, editors, *Proceedings of the Eight International Symposium on Programming Language Implementation and Logic Programming, PLILP '96*, pages 92–106. Springer, Berlin, Germany, Aachen, Germany, 24–27 september 1996, Lecture Notes in Computer Science 1140, 1996.
- [XRM01] Z. Xu, T. Reps, and B.P. Miller. Typestate checking of machine code. In D. Sands, editor, *Proceedings of the Tenth European Symposium on Programming Languages and Systems, ESOP '2001*, Genova, Italy, 2–6 April 2001, Lecture Notes in Computer Science 2028, pages 335–351. Springer, Berlin, Germany, 2001.
- [YAI95] Yi-Qing Yang, C. Ancourt, and F. Irigoin. Minimal data dependence abstractions for loop transformations. In K. Pingali, U. Banerjee, D. Gelernter, A. Nicolau, and D.A. Padua, editors, *Proceedings of the Seventh International Workshop on Languages and Compilers for Parallel Computing, Ithaca, New York, United States, 8–10 August 1994*, volume 892 of *Lecture Notes in Computer Science*, pages 201–216. Springer, Berlin, Germany, 1995.
- [Yan92] S.-W. Yan. Efficiently estimating relative grain size for logic programs on basic of abstract interpretation. In J. Jaffar, editor, *Joint International Conference and Symposium on Logic Programming, JICSLP '98, Workshop on Concurrent and Parallel Implementations*, Manchester, United Kingdom, pages 735–749. MIT Press, Cambridge, Massachusetts, United States, 15–19 June 1992.
- [Yi94] Kwangkeun Yi. Compile-time detection of uncaught exception in Standard ML programs. In B. Le Charlier, editor, *Proceedings of the First International Symposium on Static Analysis, SAS '94*, Namur, Belgium, 20–22 september 1994, Lecture Notes in Computer Science 864, pages 238–254. Springer, Berlin, Germany, 1994.
- [Yi98] Kwangkeun Yi. An abstract interpretation for estimating uncaught exceptions in standard ML programs. *Science of Computer Programming*, 31(1):147–173, May 1998.
- [YR97] Kwangkeun Yi and Sukyoung Ryu. Towards a cost-effective estimation of uncaught exceptions in SML programs. In P. Van Hentenryck, editor, *Proceedings of the Fourth International Symposium on Static Analysis, SAS '97*, Paris, France, 8–10 september 1997, Lecture Notes in Computer Science 1302, pages 98–113. Springer, Berlin, Germany, 1997.
- [YS87] E. Yardeni and E. Shapiro. A type system for logic programs. In E. Shapiro, editor, *Concurrent Prolog, Collected Papers*, chapter 28, pages 211–244. MIT Press, Cambridge, Massachusetts, United States, 1987.
- [YS91] E. Yardeni and E. Shapiro. A type system for logic programs. *Journal of Logic Programming*, 10(7):73+, 1991.

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