parallel execution of Prolog. Lourdes Araujo, Jose J. Ruz. Implementation. On the scheme of passing arguments in stack frames for Prolog. Neng-Fa Zhou. Output value placement in moded logic programs. Peter A. Bigot, David Gudeman, Saumya Debray. Native code compliation in SICStus Prolog. Ralph Clarke Haygood. Actions. Representing actions in equational logic programming. Michael Thielscher. Representing continuous change in the abductive event calculus. Kristof Van Belleghem, Marc Denecker, Danny De Schreye. Concurrency and plan generation in a logic programming language with a sequential operator. Alessio Guglielmi. Semantics II. Computing annotated logic programs. Sonia M. Leach, James J. Lu. Conditional logic programming. D. Gabbay, L. Giordano, A. Martelli, N. Olivetti. Causal models of disjunctive logic programs. Jürgen Dix, Georg Gottlob, Viktor Marek. An axiomatic approach to semantics of disjunctive programs. Jürgen Dix, Martin Müller. Constraints I. Finding conflict sets and backtrack points in CLP($\mathcal{R}$). Jennifer Burg, Sheau-Dong Lang, Charles E. Hughes. Entailment of finite domain constraints. Björn Carlson, Mats Carlsson, Daniel Diaz. Notes on the design of an open Boolean solver. Antoine Rauzy. Improved CLP scheduling with task intervals. Yves Caseau, François Laburthe. Higher-order and meta programming. Ambivalent logic as the semantic basis of metalogic programming: I. Yuejun Jiang. Higher-order aspects of logic programming (Summary). Uday S. Reddy. Higher-order polymorphic unification for logic progamming. Luis Caires, Luis Monteiro. Databases. A database interface for complex objects. Marcel Holsheimer, Rolf A. de By, Hassan Aït-Kaci. A slick procedure for integrity checking in deductive databases. Hendrik Decker, Matilde Celma. LPDA: Another look at tabulation in logic programming. Eric Villemonte de la Clergerie, Bernard Lang. Abduction and negation. On the equivalence between disjunctive and abductive logic programs. Chiaki Sakama, Katsumi Inoue. The acceptability semantics for logic programs. A.C. Kakas, P. Mancarella, Phan Minh Dung. A bottom-up semantics for constructive negation. Annalisa Bossi, Massimo Fabris, Maria Chiara Meo. Default rules: An extension of constructive negation for narrowing-based languages. Juan José Moreno-Navarro. Analysis. Depth-k sharing and freeness. Andy King, Paul Sopar. Towards a practical full mode inference system for CLP(H,N). Varoniek Dumortier, Gerda Janssens. A proof method for run-time properties of Prolog programs. Dino Pedreschi. Fast and precise regular approximations of logic programs. J.P. Gallagher, D.A. de Waal. Contraints II. Constraint solving by narrowing in combined algebraic domains. Hélène Kirchner, Christophe Ringeissen. A grammatical approach to DCG parsing. François Barthélemy. Compiling intensional sets in CLP. Paola Bruscoli, Agostino Dovier, Enrico Pontelli, Gianfranco Rossi. Transformation and synthesis. The halting problem for deductive synthesis of logic programs. Kung-Kiu Lau, Mario Ornaghi, Sten-Åke Tärnlund. A new transformation based on process-message duality for concurrent logic languages. Kouichi Kumon, Keiji Hirata. Compiling control revisited: A new approach based upon abstract interpretation. Dmitri Boulanger, Danney De Schreye. Completeness of some transformation strategies for avoiding unnecssary logical variables. Maurizio Proietti, Alberto Pettorossi. Poster abstracts. Conjunto: Constraint Propagation over set constraints with finite set domain variables. Carmen Gervet. Logic programs with refutation rules. Marion Mircheva. Efficient and complete demo predicates for definite clause languanges. Henning Christiansen. Towards a verified OR-parallel WAM. Stephan Diehl. Recomputation-free lemmatization by program transformation. P.J. Azevedo, M.J. Sergot. Isa Whelk: Whelk interpreted in Isabelle. David A. Basin. Reflection through constraint satisfaction. Jonas Barklund, Pierangelo Dell'Acqua, Stefania Costantini, Gaetano A. Lanzarone. PP-clauses: A means for handling resources. J.-M. Jacquet, Luis Monteiro. Logic, algebra and static analysis in DM systems, the IE way. Esther D. Shilcrat. Proving hardware designs. Peter T. Breuer, Luis Sánchez, Carlos Delgado Kloos. A dataflow analysis method for ground Prolog. Andreas Kågedal. Logic programming as quantum measurement. R.R. Zapatrin. Author index.

Motif Tools: Streamlined GUI Design and Programming with the Xmt Library. By David Flanagan. O'Reilley & Associates, Sebastopol, CA. (1994). 984 pages. $55.00.

Contents:

Preface. I. Application design and development with Motif. 1. Introduction: GUI development with Motif and Xmt. 2. High-level application design. II. Programming preliminaries. 3. Displaying text. 4. Using color. 5. Using icons. 6. Managing auxiliary files. 7. Application resources and command-line arguments. 8. Utility functions. 9. Looking up widgets by name. III. Programming with resources. 10. Callbacks in resource files. 11. Automatic widget creation. 12. Symbols. 13. Resource file utilities: Mockup, checkres, and ad2c. IV. Patterns and tools for the desktop. 14. Windows on the desktop. 15. Working with the window manager. 16. Working with the session manager. 17. Communicating with other clients. V. Patterns and tools for the main window. 18. The layout widget: A tutorial. 19. The layout widget: The details. 20. Easy menu creation. 21. Command-line input. 22. The message line. 23. The modeline. 24. The work area. VI. Patterns and tools for dialogs. 25. Message dialogs. 26. Simple input dialogs. 27. Presenting choices. 28. The input field widget. 29. Custom dialogs and automatic dialog management. 30. Context help. 31. Busy states and background work. VII. Reference manual. Appendices. A. Installing Xmt. B. Legal matters. C. Purchasing additional Xmt licenses. D. Reporting bugs in Xmt. E. A sample Xmt software project.

Game Theory and the Social Contract, Volume 1: Playing Fair. By Ken Binmore. MIT Press, Cambridge, MA. (1994). 364 pages. $39.95.

Contents:

Apology. Reading guide. Abstract of Volume II. 1. A liberal leviathan. 2. Toying with tautologies. 3. Squaring the circle. 4. Cardinal comparisons. Bibliography. Index.