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Disciplina	005.13/1
Soggetti	Programming languages (Electronic computers) Computer programming Artificial intelligence Mathematical logic Computer logic Programming Languages, Compilers, Interpreters Programming Techniques Artificial Intelligence Mathematical Logic and Formal Languages Logics and Meanings of Programs
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Nota di contenuto	Ecological partial deduction: Preserving characteristic trees without constraints -- Memoing evaluation by source-to-source transformation -- Transformation of left terminating programs: The reordering problem -- Derivation of concurrent algorithms in Tempo -- An argumentation-theoretic approach to logic program transformation -- Complexity of Horn programs -- Studying the cost of logic languages in an abstract interpretation framework for granularity analysis -- Towards automatic control for CLP(?) programs -- Ideal refinement of Datalog programs -- Guiding program development systems by a connection based proof strategy -- Towards an object-oriented methodology for deductive synthesis of logic programs -- Logic program synthesis by induction over Horn Clauses -- Logic program

transformation through generalization schemata [extended abstract] --
An opportunistic approach for logic program analysis and optimisation
using enhanced schema-based transformations -- Solving deductive
planning problems using program analysis and transformation --
Towards a complete proof procedure to prove properties of normal
logic programs under the completion -- Termination of logic programs
using semantic unification -- On the mechanics of metasystem
hierarchies in program transformation -- Efficient translation of lazy
functional logic programs into Prolog.

Sommario/riassunto

This book constitutes the refereed proceedings of the 5th International Workshop on Logic Program Synthesis and Transformation, LOPSTR'95, held in Utrecht, The Netherlands in September 1995. The 19 papers included were selected from 40 workshop submissions; they offer a unique up-to-date account of the use of formal synthesis and transformation techniques for computer-aided development of logic programs. Among the topics addressed are deductive and inductive program synthesis, synthesis models based on constructive type theory, program specification, program analysis, theorem proving, and applications to various types of programs.
