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Nota di contenuto	<p> Attempto Controlled English — Not Just Another Logic Specification Language -- A Step Towards a Methodology for Mercury Program Construction: A Declarative Semantics for Mercury -- Pragmatics in the Synthesis of Logic Programs -- Using Decision Procedures to Accelerate Domain-Specific Deductive Synthesis Systems -- Synthesis of Programs in Abstract Data Types -- OOD Frameworks in Component-Based Software - Development in Computational Logic -- The Use of Renaming in Composing General Programs -- Inductive Synthesis of Logic Programs by Composition of Combinatory Program Schemes -- Specialising Logic Programs with Respect to Call/Post Specifications -- Generalization in Hierarchies of Online Program Specialization Systems -- Improving Homeomorphic Embedding for Online Termination -- Successes in Logic Programs -- Inferring and Compiling Termination for Constraint Logic Programs -- Strictness Analysis as Finite-Domain Constraint Solving -- Invariant Discovery via Failed Proof Attempts -- Preventing Instantiation Errors and Loops for Logic Programs with Multiple Modes Using block Declarations -- Algorithms for Synthesizing Reactive Systems: A Perspective -- Schema-Guided Synthesis of CLP Programs -- Abstract: Proof Planning with Program Schemas -- Logical Synthesis of Imperative O.O. Programs -- Mathematical Foundations for Program Transformations -- An </p>

Exhaustive-Search Method Using Layered Streams Obtained Through a Meta-Interpreter for Chain Programs -- Bottom-Up Specialisation of Logic Programs -- Myrtle: A Set-Oriented Meta-Interpreter Driven by a "Relational" Trace for Deductive Databases Debugging.

Sommario/riassunto

This book presents the thoroughly refereed post-workshop proceedings of the 8th International Workshop on Logic-Based Program Synthesis and Transformation, LOPSTR'98 held in Manchester, UK in June 1998. The 16 revised full papers presented were carefully reviewed and selected during three rounds of inspection from a total of initially 36 extended abstracts submitted. Also included are eight short papers. Among the topics covered are logic specification, mathematical program construction, logic programming, computational logics, inductive program synthesis, constraint logic programs, and mathematical foundations.
