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                       Program Synthesis by a Reversible Metainterpreter -- Termination
                       Analysis for Tabled Logic Programming -- On Correct Program
                       Schemas -- Analysis of Logic Programs with Delay -- Constraint-Based
                       Partial Evaluation of Rewriting-Based Functional Logic Programs --
                       Preserving Termination of Tabled Logic Programs While Unfolding
                       (Extended Abstract) -- Unfolding the Mystery of Mergesort -- Towards
                       a Logic for Reasoning About Logic Programs Transformation -- A
                       Higher Order Reconstruction of Stepwise Enhancement -- Development
                       of Correct Transformation Schemata for Prolog Programs --
                       Constrained Regular Approximation of Logic Programs -- A Logic
                       Framework for the Incremental Inductive Synthesis of Datalog Theories
                       -- To Parse or Not To Parse.

   Sommario/riassunto This volume contains the papers from the Seventh International
                       Workshop on Logic Program Synthesis and Transformation, LOPSTR '97,
                       that took place in Leuven, Belgium, on July 10–12, 1997, 'back to back'
                       with the Fourteenth International Conference on Logic Programming,
                       ICLP '97. Both ICLP and LOPSTR were organised by the K.U. Leuven
                       Department of Computer Science. LOPSTR '97 was sponsored by
                       Compulog Net and by the Flanders Research Network on Declarative
                       Methods in Computer Science. LOPSTR '97 had 39 participants from 13

countries. There were two invited talks by Wolfgang Bibel (Darmstadt) on 'A multi level approach to program synthesis', and by Henning Christiansen (Roskilde) on 'Implicit program synthesis by a reversible metainterpreter'. Extended versions of both talks appear in this volume. There were 19 technical papers accepted for presentation at LOPSTR '97, out of 33 submissions. Of these, 15 appear in extended versions in this volume. Their topics range over the fields of program synthesis, program transformation, program analysis, tabling, metaprogramming, and inductive logic programming.