

logic program synthesis and pdf

Logic programming provides a uniquely nice and uniform framework for program synthesis since the specification, the synthesis process and the resulting program can all be expressed in logic.

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Logic-Based Program Synthesis and Transformation: 18th

Program Synthesis under the above considerations would be a major step towards using (true) logic as a programming language which would be the natural consequence of the previous evolution of program-

LOGIC ORIENTED PROGRAM SYNTHESIS - Cornell University

To adapt this synthesis conjecture for (typed) logic program synthesis, we encounter two problems due to the differences between functional and logic programs: Unlike a functional program, a logic program can be used in more than one way, i.e., in different input-output modes.

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LOGIC PROGRAM SYNTHESIS 325 Finally, an (executable) Prolog program is a program written in the Prolog language. The difference between Prolog programs and (pure) logic programs is that most Prolog

LOGIC PROGRAM SYNTHESIS - Connecting REpositories

A program synthesis tool usually generates a program for computing y . In many cases, however, several such programs are possible, and it is desirable to generate the optimal (e.g., the fastest ...

(PDF) ALPS: A Logic for Program Synthesis (Motivated by

Logic Program Synthesis from Incomplete Specifications 5 PROOF. Base case. In a design by structural induction of Def , there exist disjuncts in Def that are without recursion. Since all predicates other than r have a fixed interpretation in all the Herbrand models, so will the instance of r , satisfying the non-recursive disjuncts.

Logic Program Synthesis from Incomplete Specifications

Combinatory Logic Synthesis (CLS) A type-theoretic approach to component-oriented synthesis Bottom-up specification Hoare logic Classification Taxonomy Y Types ... The input repository is a logic program at the level of types Each combinator type is a rule in the program

Combinatory Logic and Program Synthesis

Preface This volume contains a selection of the papers presented at LOPSTR 2004, the 14th International Symposium on Logic-Based Program Synthesis and Transformation. The aim of the LOPSTR series is to stimulate and promote international research and collaboration on logic-based program development.

Logic Based Program Synthesis and Transformation, 14 conf

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Logic Based Program Synthesis and Transformation, 15 conf

Synthesis of Reversible Logic Circuits Vivek V. Shende vshende Aditya K. Prasad akprasad Igor L. Markov imarkov John P. Hayes ... for the synthesis of optimal circuits and study the reversible functions on three wires, reporting ... This work was partially supported by the Undergraduate Summer Research Program at the University of Michigan

Synthesis of Reversible Logic Circuits - Princeton University

Logic languages are unique in providing a uniform declarative notation for precisely describing application domains, software requirements, and for prescribing behavior via logic programs. Program synthesis and transformation techniques formalize the process of developing correct and efficient programs from requirement specifications.

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PDF. Program Analysis and Transformation. Front Matter. ... This book constitutes the thoroughly refereed post-conference proceedings of the 24th International Symposium on Logic-Based Program Synthesis and Transformation, LOPSTR 2014, held in Canterbury, UK, in September 2014.

Logic-Based Program Synthesis and Transformation

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