<<   /   Logic based program synthesis and transformation>>

13   ISBN   9783540439158

10   ISBN   3540439153

        2002-12

        1 edition (2002   8   1   )

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This book constitutes the thoroughly refereed post-proceedings of the 11th International Workshop on Logic-Based Program Synthesis and Transformation, LOPSTR 2001, held in Paphos, Cyprus, in November 2001.The 13 revised full papers presented together with an invited paper were carefully selected and improved during two rounds of reviewing and revision. The papers are organized in topical sections on program transformation and equivalence, program verification, program analysis, program development, and program synthesis.

Invited Speaker Static Analysis for Safe Destructive Updates in a Functional LanguageProgram Transformation and Equivalence A Transformation Technique for Datalog Programs Based on Non-deterministic Constructs On Deforesting Parameters of Accumulating Maps Equivalence in Answer Set ProgrammingProgram Verificaion Proof Theory, Transformations, and Logic Programming for Debugging Security Protocols Abstract Conjunctive Partial Deduction Using Regular Types and Its Application to Model Checking Verification of Sets of Infinite State Processes Using Program TransformationProgram Analysis When Size Does Matter (Termination Analysis for Typed Logic Programs) Symbolic Profiling for Multi-paradigm Declarative LanguagesProgram Development Correct Object-Oriented Systems in Computational Logic A Framework for Developing Embeddable Customized Logics Computing Environment-Aware Agent Behaviours with Logic Program UpdatesProgram Synthesis Extracting General Recursive Program Schemes in Nuprl's Type Theory Extracting Exact Time Bounds from Logical ProofsAuthor Index

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