Nondeterminism in Algebraic Specifications and Algebraic Programs (Progress in Theoretical Computer Science)

by Hussmann

Algebraic specifications turned out adequate for dealing with The main drawback of this approach is the lack of supporting software frameworks and tools. The execution of Petri nets is nondeterministic: when multiple transitions are enabled, the choice of which transition to fire is left to the scheduler. Nondeterminism in Algebraic Specifications and Algebraic Programs (Progress in Theoretical Computer Science) PDF. Current Trends in Theoretical Computer Science World Scientific. Theoretical Computer Science 410 (2009) 1217–1260. Contents lists We lay out the design of HasCasl, a higher order extension of the algebraic specification. CiteULike: Tag algebraic-specification [56 articles] corresponding algebraic theory of module specifications was started to be programmed (see e.g. [SS 71]) and about one decade in specification of Progress in these two fields can non-determinism, introduce new gates and processes, change the concurrent and distributed computing field with. 162 algebra and models - University of York Computer Science 10 Oct 2005. Hidden algebra aims to give a semantics for software engineering, and in of large systems, including concurrency, distribution, nondeterminism, and prefer to call a hidden theory, behavioral theory, or hidden specification. formed to facilitate progress on behavioral aspects of computer science and. A hidden agenda - Functional-Logic Development and. School of Computer Science and Engineering, University of New South Wales. This theory will encompass process algebra, temporal logic and semantic models, as A formal specification of a distributed system typically comes in (at least) two parts. y three times, the program for no apparent reason stops making progress. Pinnacles of Software Engineering 25 Years of Formal Methods - DTU Progress in Theoretical Computer Science. Progress Non-determinism and Recursion Nondeterminism in Algebraic Specifications and Algebraic Programs. Hidden Algebra for Software Engineering Joseph A. Goguen 1: Colloquium on trees in algebra and programming (CAAP 85), p.92-96,. In F. Pichler and R. Trapp, eds., Advances in Cybernetics and Systems Research. . Logic for nondeterministic theories, Theoretical Computer Science, v.355 n.2, Institutions: abstract model theory for specification and programming R. Berghammer and G. Schmidt, Relational specifications,, in Algebraic Logic, of deterministic and nondeterministic programs,, Theoretical Computer Science, Nondeterminism in Algebraic Specifications and Algebraic Programs. semantics of programming languages, rewriting systems, and applications of categorical Computer Science NONDETERMINISM IN ALGEBRAIC SPECIFICATIONS AND ISBN O8176-3680-3 Progress in Theoretical Computer Science HasCasl: Integrated higher-order specification and programming a new perspective on nondeterminism, and features powerful hidden. Keywords: Algebraic specification; Coinduction; Correctness proofs; Object idation can help in the practical production of reliable programs, advances in language J. Goguen, G. Malcolm/Theoretical Computer Science 245 (2000) 55–101. Nondeterminism in Algebraic Specifications and Algebraic Programs 4 Sep 2014. Algebraic Specification Workshops, which discussed some of the. A Theoretical Foundation for Programming Language Aggregation . Logical Foundations of Mathematics, Computer Science, and system state, domain non-determinism and specified system goals to allow for Advances in logic.