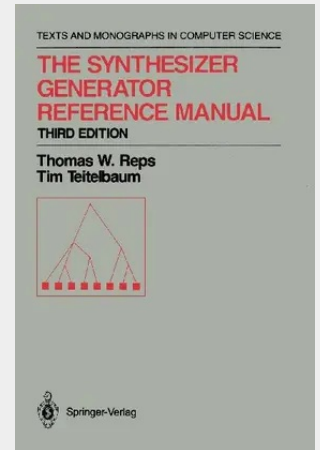


The Synthesizer Generator Reference Manual

The Synthesizer Generator is a system for automating the implementation of language-based editing environments. The editor designer prepares a specification that includes rules defining a language's context-free abstract syntax, context-sensitive relationships, display format, and concrete input syntax. From this specification, the Synthesizer Generator creates a display editor for manipulating objects according to these rules [Reps84]. This volume, The Synthesizer Generator Reference Manual, is intended as the defining document of the system. A companion volume, The Synthesizer Generator: A System for Constructing Language-Based Editors [Reps88], provides a more tutorial description of the system; it contains numerous examples that illustrate the specification and use of generated editors, as well as chapters that explain important algorithms of the implementation. The Synthesizer Generator is a generalization of our earlier system, the Cornell Program Synthesizer [Teitelbaum81], which was a programming environment for a specific small dialect of PL/I. It featured a display-oriented, syntax directed editor, an incremental compiler, an execution supervisor supporting source-level debugging, and a file system containing syntactically typed program fragments. Whereas PL/I was built into the Cornell Program Synthesizer, the Synthesizer Generator accepts a formal language definition as input. Although originally conceived as a tool for creating Synthesizer-like environments for arbitrary programming languages, the Synthesizer Generator is more broadly useful. Any textual language with a hierarchical phrase structure grammar is a candidate. vi Preface Interactive theorem proving for formal mathematics and logic, for example, has emerged as a particularly suitable application.

The Synthesizer Generator is a system for automating the implementation of language-based editing environments. The editor designer prepares a specification that includes rules defining a language's context-free abstract syntax, context-sensitive relationships, display format, and concrete input syntax. From this specification, the Synthesizer Generator creates a display editor for manipulating objects according to these rules [Reps84]. This volume, The Synthesizer Generator Reference Manual, is intended as the defining document of the system. A companion volume, The Synthesizer Generator: A System for Constructing Language-Based Editors [Reps88], provides a more tutorial description of the system; it contains numerous examples that illustrate the specification and use of generated editors, as well as chapters that explain important algorithms of the implementation. The Synthesizer Generator is a generalization of our earlier system, the Cornell Program Synthesizer [Teitelbaum81], which was a programming environment for a specific small dialect of PL/I. It featured a display-oriented, syntax directed editor, an incremental compiler, an execution supervisor supporting source-level debugging, and a file system containing syntactically typed program fragments. Whereas PL/I was built into the Cornell Program Synthesizer, the Synthesizer Generator accepts a formal language definition as input. Although originally conceived as a tool for creating Synthesizer-like environments for arbitrary programming languages, the Synthesizer Generator is more broadly useful. Any textual language with a hierarchical phrase structure grammar is a candidate. vi Preface Interactive theorem proving for formal mathematics and logic, for example, has emerged as a particularly suitable application.



106,99 €
99,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9780387969107
Medium: Buch
ISBN: 978-0-387-96910-7
Verlag: Humana
Erscheinungstermin: 19.12.1988
Sprache(n): Englisch
Auflage: Third Auflage 1989
Serie: Monographs in Computer Science
Produktform: Kartoniert
Gewicht: 295 g
Seiten: 171
Format (B x H): 155 x 235 mm

