<<图文法及图像转换计算手册,卷二>>

图书基本信息

书名: <<图文法及图像转换计算手册,卷二>>

13位ISBN编号:9789810240202

10位ISBN编号:9810240201

出版时间:1999-10

出版时间:Penguin

作者: Ehrig, H.; Engels, G.; Kreowski, H. J.

页数:698

版权说明:本站所提供下载的PDF图书仅提供预览和简介,请支持正版图书。

更多资源请访问:http://www.tushu007.com

<<图文法及图像转换计算手册,卷二>>

内容概要

Graph grammars originated in the late 60s, motivated by considerations about pattern recognition and compiler construction. Since then, the list of areas which have interacted with the development of graph grammars has grown quite impressively. Besides the aforementioned areas, it includes software specification and development, VLSI layout schemes, database design, modeling of concurrent systems, massively parallel computer architectures, logic programming, computer animation, developmental biology, music composition, visual languages, and many The area of graph grammars and graph transformations generalizes formal language theory based on strings and the theory of term rewriting based on trees. As a matter of fact, within the area of graph grammars, graph transformation is considered as a fundamental computation paradigm where computation includes specification, programming, and implementation. Over the last three decades, graph grammars have developed at a steady pace into a theoretically attractive and important-for-applications research field. Volume 2 of the indispensable Handbook of Graph Grammars and Computing by Graph Transformations considers applications to functional languages, visual and object-oriented languages, software engineering, mechanical engineering, chemical process engineering, and images. It also presents implemented specification languages and tools, and structuring and modularization concepts for specification languages. The contributions have been written in a tutorial/survey style by the top experts in the corresponding areas. This volume is accompanied by a CD-Rom containing implementations of specification environments based on graph transformation systems, and tools whose implementation is based on the use of graph transformation systems.

<<图文法及图像转换计算手册,卷二>>

书籍目录

Term Rewriting and Functional Languages 1 Term Graph Rewriting (D. Plump) 1.1 Introduction 1.2 Abstract Reduction Systems 1.3.1 From Hypergraphs to Term Graphs 1.3 Term Graphs 1.3.2 Collapsing, Copying and Bisimilarity 1.4 Term Graph Rewriting 1.3.3 Bibliographic Notes 1.4.1 Term 1.4.3 Incorporating Collapsing and Copying 1.4.2 Term Graph Rewriting Rewriting 1.4.4 1.5.1 Simulating Arbitrary Term Rewrite Derivations Bibliographic Notes 1.5 Completeness 1.5.2 1.6 Termination Graph-Reducihility 1.5.3 Bibliographic Notes 1.6.1 The Relation to Term Rewriting 1.6.2 Combined Systems 1.6.3 A Recursive Path Order on Term Graphs 1.7 Confluence 1.7.2 Decidability and Combined Systems The Relation to Term Rewriting 1.7.3 Plain Term Graph Rewriting and Confluence Modulo Bisimilarity 1.8 Term Graph Narrowing 1.8.1 Term Graph Narrowing 1.8.2 Minimally and Maximally Collapsing Narrowing 1.8.3 Bibliographic Notes 1.9 Further Topics References 2 Graph Rewriting Aspects of ~nctional Programming (E. Barendsen, S. Smetsers) 2.1 2.2 Term Graphs 2.3 Graph Rewriting 2.3.1 Graph Rewriting in Practice 2.4 Copying Introduction 2.4.1 Copying in Practice 2.5 Operational Semantics 2.5.1 Reduction Strategies 2.5.2 Graph Syntax 2.5.3 Operational Semantics 2.5.4 Translating Rewrite Systems 2.6 Typing Systems 2.6.1 Standard 2.6.3 Recursive Data Types 2.6.4 Strictness Analysis in Practice **Typing** 2.6.2 Strictness Analysis References Visual and Object-Oriented Languages 3 Application of Graph Transformation to Visual Languages (R. Bardoh], M. Minas, A. Schiirr, G. Taentzer) 3.1 Introduction 3.2 Visual Languages and **Environments** 3.3 Defining the Syntax of Visual Languages 3.3.1 Concrete and Abstract Syntax of Visual Languages 3.3.2 Graph Grammars 3.3.3 Hypergraph Representation of Visual Sentences 3.3.4 **Graph Structure Representation of Visual Sentences** 3.4 Generating Visual Language Editors 3.4.1 Visual **Editing Modes** 3.5 Generating Visual Language Parsers 3.4.2 GENGED 3.4.3 DIAGEN 3.5.1 The 3.5.2 Parsing for Context-Free Hypergraph Grammars Visual Language Parsing Problem 3.5.3 Parsing for Context-Free Hypergraph Grammars with Embeddings 3.5.4 Parsing for Layered Graph Grammars 3.6 Applications to Software Engineering Visual Graph Transformation Languages Applications to Engineering Disciplines

<<图文法及图像转换计算手册,卷二>>

版权说明

本站所提供下载的PDF图书仅提供预览和简介,请支持正版图书。

更多资源请访问:http://www.tushu007.com