

Lecture Notes in Computer Science

776

Hans Jürgen Schneider
Hartmut Ehrig (Eds.)

Graph Transformations in Computer Science

International Workshop
Dagstuhl Castle, Germany, January 1990
Proceedings



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Grzegorz Rozenberg



Graph Transformations In Computer Scienc:

Graph Transformations in Computer Science Hans J. Schneider, Hartmut Ehrig, 1994-03-28 The research area of graph grammars and graph transformations dates back only two decades But already methods and results from the area of graph transformation have been applied in many fields of computer science such as formal language theory pattern recognition and generation compiler construction software engineering concurrent and distributed systems modelling and database design and theory This volume contains 24 selected and revised papers from an international seminar held in Dagstuhl Germany in 1993 The papers cover topics in the following areas foundations of graph grammars and transformations and applications of graph transformations to concurrent computing specification and programming and pattern generation and recognition

Graph Transformations Hartmut Ehrig, 2004-09-17 This book constitutes the refereed proceedings of the Second International Conference on Graph Transformation ICGT 2004 held in Rome Italy in September October 2004 The 26 revised full papers presented together with three invited contributions and summaries of 2 tutorials and 5 workshops were carefully reviewed and selected from 58 submissions The papers are organized in topical sections on integration technology chemistry and biology graph transformation concepts DPO theory for high level structures analysis and testing graph theory and algorithms application conditions and logic transformation of special structures and object orientation

Handbook Of Graph Grammars And Computing By Graph Transformation, Vol 1: Foundations Grzegorz Rozenberg, 1997-02-27 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 others 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 a fundamental programming paradigm where computation includes specification programming and implementation Over the last 25 odd years graph grammars have developed at a steady pace into a theoretically attractive and well motivated research field In particular they are now based on very solid foundations which are presented in this volume Volume 1 of the indispensable Handbook of Graph Grammars and Computing by Graph Transformations includes a state of the art presentation of the foundations of all the basic approaches to rule based graph specification and transformation algebraic approach logic approach node based rewriting hyper edge based rewriting programmed graph rewriting and 2 structures The book has been written in a tutorial survey style to enhance its usefulness

Handbook of Graph Grammars and Computing by Graph Transformation Hartmut Ehrig, Grzegorz Rozenberg, Hans-Jörg Kreowski, 1997 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 others 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 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 3 of the indispensable Handbook of Graph Grammars and Computing by Graph Transformations presents the research on concurrency parallelism and distribution important paradigms of modern science The topics considered include semantics for concurrent systems modeling of concurrency mobile and coordinated systems algebraic specifications Petri nets visual design of distributed systems and distributed algorithms The contributions have been written in a tutorial survey style by the top experts *Handbook Of Graph Grammars And Computing By Graph Transformations, Vol 3: Concurrency, Parallelism, And Distribution* Grzegorz Rozenberg, Hartmut Ehrig, Hans-jorg Kreowski, Ugo Montanari, 1999-08-30 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 others 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 3 of the indispensable Handbook of Graph Grammars and Computing by Graph Transformations presents the research on concurrency parallelism and distribution important paradigms of modern computer science The topics considered include semantics for concurrent systems modeling of concurrency mobile and coordinated systems algebraic specifications Petri nets visual design of distributed systems and distributed algorithms The contributions have been written in a tutorial survey style by the top experts **Handbook of Graph Grammars and Computing by Graph Transformation** Grzegorz Rozenberg, 1997-01-01 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 others 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 a fundamental programming paradigm where computation includes specification programming and implementation

Graph Transformation for Software Engineers Reiko Heckel, Gabriele Taentzer, 2020-05-13 This book is an introduction to graph transformation as a foundation to model based software engineering at the level of both individual systems and domain specific modelling languages The first part of the book presents the fundamentals in a precise yet largely informal way Besides serving as prerequisite for describing the applications in the second part it also provides a comprehensive and systematic survey of the concepts notations and techniques of graph transformation The second part presents and discusses a range of applications to both model based software engineering and domain specific language engineering The variety of these applications demonstrates how broadly graphs and graph transformations can be used to model analyse and implement complex software systems and languages This is the first textbook that explains the most commonly used concepts notations techniques and applications of graph transformation without focusing on one particular mathematical representation or implementation approach Emphasising the research and engineering methodologies used it will be a valuable resource for graduate students practitioners and researchers in software engineering foundations of programming and formal methods

Graph Transformations Andrea Corradini, Hartmut Ehrig, Ugo Montanari, Leila Ribeiro, Grzegorz Rozenberg, 2006-09-21 This book constitutes the refereed proceedings of the Third International Conference on Graph Transformations ICGT 2006 The book presents 28 revised full papers together with 3 invited lectures All current aspects in graph drawing are addressed including graph theory and graph algorithms theoretic and semantic aspects modeling tool issues and more Also includes accounts of a tutorial on foundations and applications of graph transformations and of ICGT Conference satellite events

Graph Grammars and Their Application to Computer Science Hartmut Ehrig, Hans-Jörg Kreowski, 1991-09-11 This volume contains papers selected from the contributions to the 4th International Workshop on Graph Grammars and Their Application to Computer Science It is intended to provide a rich source of information on the state of the art and newest trends to researchers active in the area and for scientists who would like to know more about graph grammars The topics of the papers range from foundations through algorithmic and implemental aspects to various issues that arise in application areas like concurrent computing functional and logic programming software engineering computer graphics artificial intelligence and biology The contributing authors are F J Brandenburg H Bunke T C Chen M Chytil B Courcelle J Engelfriet H Gttler A Habel D Janssens

C Lautemann B Mayoh U Montanari M Nagl F Parisi Presicci A Paz P Prusinkiewicz M R Sleep A Rosenfeld J Winkowski and others

Handbook Of Graph Grammars And Computing By Graph Transformations, Vol 2: Applications, Languages And Tools Grzegorz Rozenberg, 1999-10-20 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 others 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

Graph Grammars and Their Application to Computer Science Janice Cuny, 1996-05-08 This book describes the functional properties and the structural organization of the members of the thrombospondin gene family These proteins comprise a family of extracellular calcium binding proteins that modulate cellular adhesion migration and proliferation Thrombospondin 1 has been shown to function during angiogenesis wound healing and tumor cell metastasis

Foundation of Software Science and Computation Structures Jerzy Tiurnyn, 2003-06-26 ETAPS2000 was the third instance of the European Joint Conferences on Theory and Practice of Software ETAPS is an annual federated conference that was established in 1998 by combining a number of existing and new conferences This year it comprised the conferences FOSSACS FASE ESOP CC TACAS and satellite workshops CBS CMCS CoFI GRATRA INT seven invited lectures a panel discussion and ten tutorials The events that comprise ETAPS address various aspects of the system development process including specification design implementation analysis and improvement The languages methodologies and tools which support these activities are all well within its scope The recent blends of theory and practice are represented with an inclination towards theory with a practical motivation on one hand and soundly based practice on the other Many of the issues involved in software design apply to systems in general including hardware systems

and the emphasis on software is not intended to be exclusive ETAPS is a loose confederation in which each event retains its own identity with a separate program committee and independent proceedings Its format is open ended allowing it to grow and evolve as time goes by Contributed talks and system demonstrations are in synchronized parallel sessions with invited lectures in plenary sessions Two of the invited lectures are reserved for u fying talks on topics of interest to the whole range of ETAPS attendees

Theory and Application of Graph Transformations Hartmut Ehrig, Gregor Engels, Hans-Jörg Kreowski, Grzegorz Rozenberg, 2004-02-02 The area of graph transformation originated in the late 1960s under the name graph grammars the main motivation came from practical considerations concerning pattern recognition and compiler construction Since then the list of areas which have interacted with the development of graph transformation has grown impressively The areas include software speci cation and development VLSI layout schemes database design modeling of concurrent systems m sively parallel computer architectures logic programming computer animation developmental biology music composition distributed systems speci cation l guages software and web engineering and visual languages As a matter of fact graph transformation is now accepted as a fundamental computation paradigm where computation includes speci cation programming and implementation Over the last three decades the area of graph transfor tion has developed at a steady pace into a theoretically attractive research eld important for applications This volume

consists of papers selected from contributions to the Sixth International Workshop on Theory and Applications of Graph Transformation that took place in Paderborn Germany November 16-20 1998 The papers und went an additional refereeing process which yielded 33 papers presented here out of 55 papers presented at the workshop This collection of papers provides a very broad snapshot of the state of the art of the whole eld today They are grouped into nine sections representing most active research areas The workshop was the sixth in a series of international workshops which take place every four years Previous workshops were called Graph Grammars and Their Application to Computer Science The new name of the Sixth Workshop re ects more accurately the current situation where both theory and application play an equally central role

Fundamentals of Algebraic Graph Transformation Hartmut Ehrig, Karsten Ehrig, Ulrike Prange, Gabriele Taentzer, 2006-05-01 This is the first textbook treatment of the algebraic approach to graph transformation based on algebraic structures and category theory It contains an introduction to classical graphs Basic and advanced results are first shown for an abstract form of replacement systems and are then instantiated to several forms of graph and Petri net transformation systems The book develops typed attributed graph transformation and contains a practical case study

Applications of Graph Transformations with Industrial Relevance Manfred Nagl, Andreas Schürr, Manfred Münch, 2003-07-31 This book constitutes the thoroughly refereed post proceedings of the International Workshop on Graph Transformation with Industrial Relevance AGTIVE 99 held in Kerkrade The Netherlands in June 1999 The 28 revised full papers presented went through an iterated process of reviewing and revision Also included are three invited papers 10 tool

demonstrations a summary of a panel discussion and lists of graph transformation systems and books on graph transformations The papers are organized in sections on modularization concepts distributed systems modeling software architecture evolution and reengineering visual graph transformation languages visual language modeling and tool development knowledge modeling image recognition and constraint solving process modeling and view integration and visualization and animation tools Applications of Graph Transformations with Industrial Relevance Andy Schürr,Dániel Varró,Gergely Varró,2012-10-01 This book constitutes the thoroughly refereed post conference proceedings of the 4th International Symposium on Applications of Graph Transformations AGTIVE 2011 held in Budapest Hungary in October 2011 The 13 revised full papers presented together with 2 invited talks 2 application reports and 3 tool demonstration papers were carefully selected from 36 submissions during two rounds of reviewing and improvement The papers are organized in topical sections on invited talk abstracts model driven engineering graph transformation applications tool demonstrations graph transformation exploration techniques graph transformation semantics and reasoning application reports and bidirectional transformations **Graph Transformation** Jörg Endrullis,Matthias Tichy,2025-06-12 This book constitutes the refereed proceedings of the 18th International Conference on Graph Transformation ICGT 2025 held in Koblenz Germany during June 11 12 2025 The 10 full papers and 1 short paper included in this book were carefully reviewed and selected from 19 submissions The topics of the accepted papers cover a wide spectrum ranging from advancements in the classical theory of graph transformation to the integration of artificial intelligence approaches with graph transformations the fuzzing of graph databases and applications of graph transformation in areas such as dialogue management systems and threat analysis **Applications of Graph Transformations with Industrial Relevance** John L. Pfaltz,Manfred Nagl,Boris Böhlen,2004-07-28 This book constitutes the thoroughly refereed post proceedings of the Second International Workshop on Applications of Graph Transformations with Industrial Relevance AGTIVE 2003 held in Charlottesville Virginia USA in September October 2003 The 27 revised full papers and 11 revised demo papers presented together with 2 invited papers and 5 workshop reports were carefully selected during iterated rounds of reviewing and revision The papers are organized in topical sections on Web applications data structures and data bases engineering applications agent oriented and functional programs and distribution object and aspect oriented systems natural languages processing and structuring reengineering reuse and integration modeling languages bioinformatics and multimedia picture and visual languages *Graph Transformations and Model-Driven Engineering* Gregor Engels,Claus Lewerentz,Wilhelm Schäfer,Andy Schürr,Bernhard Westfechtel,2010-11-22 This festschrift volume published in honor of Manfred Nagl on the occasion of his 65th birthday contains 30 refereed contributions that cover graph transformations software architectures and reengineering embedded systems engineering and more Mathematical Foundations of Computer Science 1997 Igor Privara,1997-08-13 This book constitutes the refereed post conference proceedings of the Second International Andrei Ershov Memorial Conference on

System Informatics held in Akademgorodok Novosibirsk Russia in June 1996 The 27 revised full papers presented together with 9 invited contributions were thoroughly refereed for inclusion in this volume The book is divided in topical sections on programming methodology artificial intelligence natural language processing machine learning dataflow and concurrency models parallel programming supercompilation partial evaluation object oriented programming semantics and abstract interpretation programming and graphical interfaces and logic programming

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