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Volume 1
FOUNDATIONS

HANDBOOK of GRAPH GRAMMARS and COMPUTING by GRAPH TRANSFORMATION



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Handbook Of Graph Grammars And Computing By Graph Transformations Foundations

**Andy Schürr, Manfred Nagl, Albert
Zündorf**



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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 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 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

Foundation of Software Science and Computation Structures Jerzy Tiurny, 2000-03-15 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 Different 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 university talks on topics of interest to the whole range of ETAPS attendees.

Trustworthy Global Computing Martin Wirsing, Martin Hofmann, Axel Rauschmayer, 2010-09-13
This book constitutes the refereed proceedings of the 5th International Symposium on Trustworthy Global Computing TGC 2010 held in Munich Germany in February 2010. The 17 revised full papers presented and the 7 invited papers were carefully reviewed and selected from 31 submissions. The papers are organized in topical sections on types and processes, games and concurrent systems, certification of correctness, tools and languages, and probabilistic aspects.

Graph Transformations Hartmut Ehrig, Gregor Engels, Francesco Parisi-Presicce, Grzegorz Rozenberg, 2004-11-11
ICGT 2004 was the 2nd International Conference on Graph Transformation following the first one in Barcelona 2002 and a series of six international workshops on graph grammars with applications in computer science between 1978 and 1998. ICGT 2004 was held in Rome Italy Sept 29 Oct 1 2004 under the auspices of the European Association for Theoretical Computer Science EATCS, the European Association of Software Science and Technology EASST and the IFIP WG 1.3 Foundations of Systems Specification. The scope of the conference concerned graphical structures of various kinds like graphs, diagrams, visual sentences and others that are useful when describing complex structures and systems in a direct and intuitive way. These structures are often augmented with formalisms that add to the static description a further dimension allowing for the modelling of the evolution of systems via all kinds of transformations of such graphical structures. The field of graph transformation is concerned with the theory, applications and implementation issues of such formalisms. The theory is strongly related to areas such as graph theory and graph algorithms, formal language and parsing theory, the theory of concurrent and distributed systems, formal specification and verification, logic and semantics. The application areas include all those fields of computer science, information processing, engineering and the natural sciences where static and dynamic modelling using graphical structures and graph transformations respectively play important roles. In many of these areas, tools based on graph transformation technology have been implemented and used.

Rigorous Software Engineering for Service-Oriented Systems Martin Wirsing, Matthias Hölzl, 2011-09-15
Service Oriented Computing is a paradigm for developing and providing software that can address many IT challenges ranging from integrating legacy systems to building new massively distributed, interoperable, evaluable systems and applications. The widespread use of SOA demonstrates the practical benefits of this approach. Furthermore, it raises the standard for reliability, security and performance for IT providers, system integrators and

software developers This book documents the main results of Sensoria an Integrated Project funded by the European Commission in the period 2005-2010 The book presents as Sensoria's essence a novel coherent and comprehensive approach to the design formal analysis automated deployment and reengineering of service oriented applications Following a motivating introduction the 32 chapters are organized in the following topical parts modeling in service oriented architectures calculi for service oriented computing negotiation planning and reconfiguration qualitative analysis techniques for SOC quantitative analysis techniques for SOC model driven development and reverse engineering for service oriented systems and case studies and patterns Applications of Graph Transformations with Industrial Relevance Andy

Schürr, Manfred Nagl, Albert Zündorf, 2008-10-15 This book constitutes the thoroughly refereed post conference proceedings of the Third International Symposium on Applications of Graph Transformations AGTIVE 2007 held in Kassel Germany in October 2007 The 30 revised full papers presented together with 2 invited papers were carefully selected from numerous submissions during two rounds of reviewing and improvement The papers are organized in topical sections on graph transformation applications meta modeling and domain specific language new graph transformation approaches program transformation applications dynamic system modeling model driven software development applications queries views and model transformations as well as new pattern matching and rewriting concepts The volume moreover contains 4 papers resulting from the adjacent graph transformation tool contest and concludes with 9 papers summarizing the state of the art of today's available graph transformation environments 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 specification and development VLSI layout schemes database design modeling of concurrent systems massively parallel computer architectures logic programming computer animation developmental biology music composition distributed systems specification languages 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 specification programming and implementation Over the last three decades the area of graph transformation has developed at a steady pace into a theoretically attractive research field 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 underwent 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 field 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 reflects more accurately the current situation where both theory and application play an equally central role Applications of Graph Transformations with Industrial Relevance John L. Pfaltz, Manfred Nagl, Boris Böhlen, 2004-06-01 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 **Bidirectional Transformations** Jeremy Gibbons, Perdita Stevens, 2018-03-27 Bidirectional transformations BX are means of maintaining consistency between multiple information sources when one source is edited the others may need updating to restore consistency BX have applications in databases user interface design model driven development and many other domains This volume represents the lecture notes from the Summer School on Bidirectional Transformations held in Oxford UK in July 2016 The school was one of the final activities on the project A Theory of Least Change for Bidirectional Transformations running at the University of Oxford and the University of Edinburgh from 2013 to 2017 and funded by the UK Engineering and Physical Sciences Research Council The five chapters included in this volume are a record of most of the material presented at the summer school After a comprehensive introduction to bidirectional transformations they deal with triple graph grammars modular edit lenses putback based bidirectional programming and engineering of bidirectional transformations 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 **Graph Transformation, Specifications, and Nets** Reiko Heckel, Gabriele Taentzer, 2018-02-06 This volume pays tribute to the scientific achievements of Hartmut Ehrig who passed away in March 2016 The contributions represent a selection from a symposium

held in October 2016 at TU Berlin commemorating Hartmut's life and work as well as other invited papers in the areas he was active in. These areas include Graph Transformation, Model Transformation, Concurrency Theory, in particular Petri Nets, Algebraic Specification and Category Theory in Computer Science. *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. **Coordination Languages and Models** Antonio Porto, Grigore-Catalin Roman, 2000-08-28. This book constitutes the refereed proceedings of the 4th International Conference on Coordination Languages and Models COORDINATION 2000 held in Limassol, Cyprus, in September 2000. The 18 revised full papers and nine short papers presented were carefully reviewed and selected from 52 submissions. The papers are organized in topical sections on coordination styles and trends, tuple space semantics and implementation, coordination policies, dynamics of coordination, mobility, semantic models, shifting Linda perspectives, directions in software architecture, achieving software dependability. **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 tools, issues, and more. Also includes accounts of a tutorial on foundations and applications of graph transformations and of ICGT Conference satellite events. Formal Methods in Software and Systems Modeling Hans-Jörg Kreowski, Ugo Montanari, Fernando Orejas, Grzegorz Rozenberg, Gabriele Taentzer, 2005-02-04. By presenting state-of-the-art research results on various aspects of formal and visual modeling of software and systems, this book commemorates the 60th birthday of Hartmut Ehrig. The 24 invited reviewed papers are written by students and collaborators of Hartmut Ehrig who are established researchers in their fields. Reflecting the scientific interest and work of Hartmut Ehrig, the papers fall into three main parts: on graph transformation, algebraic specification and logic, and formal and visual modeling. Model Driven Architecture - Foundations and Applications Ina Schieferdecker, Alan Hartman, 2008-05-30. The fourth edition of the European Conference on Model Driven Architecture Foundations and Applications ECMDA FA 2008 was dedicated to furthering the state of knowledge and fostering the industrialization of the model-driven architecture (MDA) methodology. MDA is an initiative proposed by the Joint Management Group (JMG) for platform generic software development. It promotes the use of models in the specification, design, analysis, synthesis, deployment, and evolution of complex software systems. ECMDA FA 2008 focused on engaging key European and international researchers and practitioners in a dialogue which will result in a stronger

more efficient industry producing more reliable software on the basis of state of the art research results ECMDA FA is a forum for exchanging information discussing the latest results and arguing about future developments of MDA It is a pleasure to be able to introduce the proceedings of ECMDA FA 2008 ECMDA FA addresses various MDA areas including model management executable models concrete syntaxes aspects and concerns validation and testing model based systems engineering model driven development and service oriented architectures and the application of model driven development There are so many people who deserve warm thanks and gratitude The fruitful collaboration of the Organization Steering and Program Committee members and the vibrant community led to a successful conference ECMDA FA 2008 obtained excellent results in terms of submissions program size and attendance The Program Committee accepted with the help of additional reviewers research papers and industry papers for ECMDA FA 2008 We received 87 submissions Of these a total of 31 were accepted including 21 research papers and 10 industry papers We thank them for the thorough and high quality selection process

Recent Trends in Algebraic Development Techniques José Luiz Fiadeiro, Peter Mosses, Fernando Orejas, 2005-02-26 This volume contains selected papers from WADT 2004 the 17th International Workshop on Algebraic Development Techniques

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