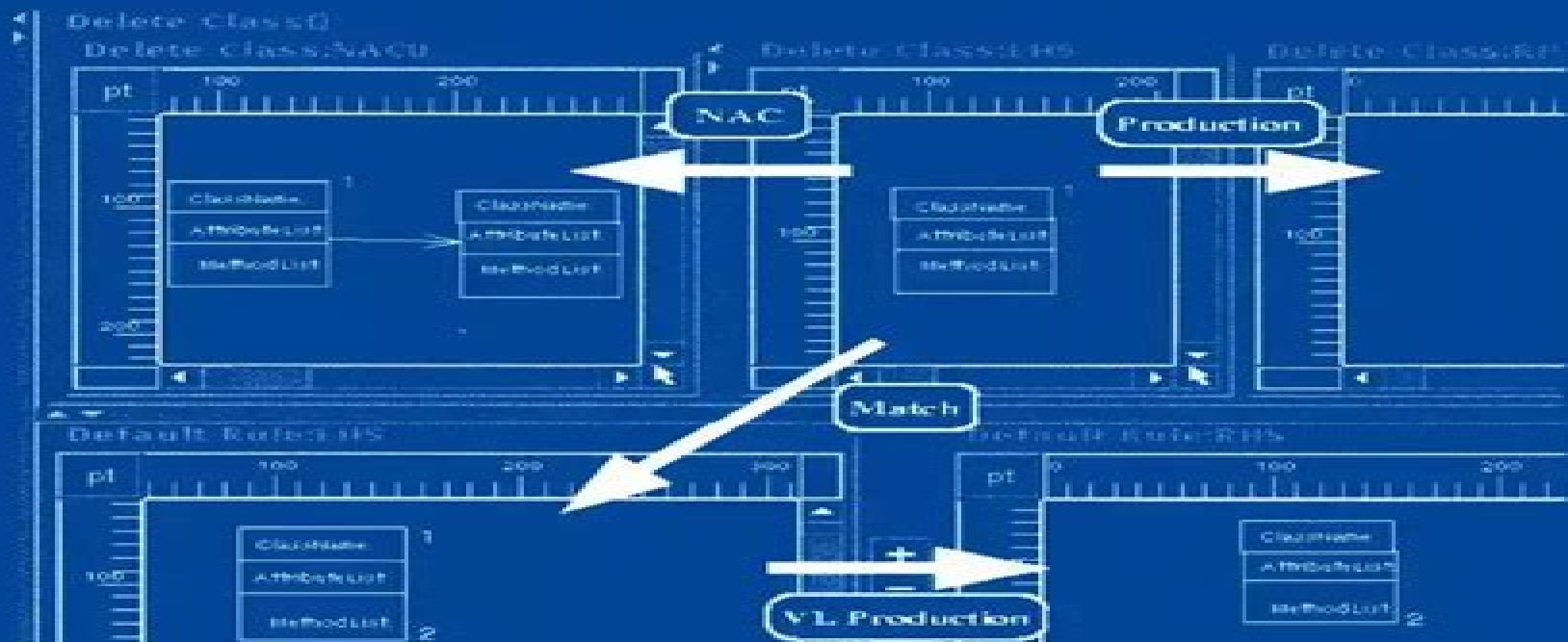


Roswitha Bardohl

## GENGED

# Visual Definition of Visual Languages

*based on Algebraic Graph Transformation*



# Genged Visual Definition Of Visual Languages Based On Algebraic Graph Transformation

**A Loxley**



## **Genged Visual Definition Of Visual Languages Based On Algebraic Graph Transformation:**

**GENGED: Visual Definition of Visual Languages** Roswitha Bardohl,2000      *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** Andrea Corradini,Hartmut Ehrig,Hans-Jörg Kreowski,Grzegorz Rozenberg,2003-06-30 ICGT 2002 was the rst International Conference on Graph Transformation following a series of six international workshops on graph grammars with plications in computer science held in Bad Honnef 1978 Osnabruc k 1982 Warrenton 1986 Bremen 1990 Williamsburg 1994 and Paderborn 1998 ICGT 2002 was held in Barcelona Spain October 7 12 2002 under the a pices of the European Association of Theoretical Computer Science EATCS the European Association of Software Science and Technology EASST and the IFIP Working Group 1 3 Foundations of Systems Speci cation The scope of the conference concerned graphical structures of various kinds like graphs diagrams visual sentences and others that are useful to describe complex structures and systems in a direct and intuitive way These structures are often augmented by formalisms which add to the static description a further dimension allowing for the modeling of the evolution of systems via all kinds of transformations of such graphical structures The eld 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 gorithms formal language and parsing theory the theory of concurrent and distributed systems formal speci cation and veri cation logic and semantics      **Petri Net Technology for Communication-Based Systems** Hartmut Ehrig,Wolfgang Reisig,Grzegorz Rozenberg,Herbert Weber,2003-11-25 This state of the art survey in the Advances in Petri Nets series reports how various well established and novel Petri net notions and techniques can be employed for modelling communication based systems with a particular focus on workflow management and business processes The book builds on the success of a special program of the German Science Foundation DFG on Petri Net Technology as well as on broad participation from the international Petri net research community  
*IEEE/ACM International Conference on Automated Software Engineering* ,2005      **Graph Transformation** ,2002  
**Recent Trends in Algebraic Development Techniques** ,2001      **Proceedings, ASE** ,2005      *Visual Languages for Interactive Computing* Fernando Ferri,2008-01-01 This book presents problems and methodologies related to the syntax

semantics and ambiguities of visual languages It defines and formalizes visual languages for interactive computing as well as visual notation interpretation Provided by publisher     **Fundamental Approaches to Software Engineering** ,2002

**Proceedings** ,2002     **ACM Transactions on Software Engineering and Methodology** ,2005     **26th Annual International Computer Software and Applications Conference** IEEE Computer Society,2002 Collects the 172 papers presented during the August 2002 conference with the theme of Prolonging software life development and redevelopment The main subjects of the 38 sessions are component based software development software process quality control testing software evolution web based sy     **IEEE 2002 Symposia on Human Centric Computing Languages and Environments : Proceedings : September 3-6, 2002, Arlington, Virginia, USA** ,2002     **2001 IEEE Symposium on Human-Centric Computing** ,2001 This volume contains the conference proceedings from the 2001 Human Centric Computing Languages and Environments     **Applications of Graph Transformations with Industrial Relevance** ,2003

**Mathematical Reviews** ,2001     Application and Theory of Petri Nets ,2005     **German books in print** ,2000

**Fundamentals of Algebraic Graph Transformation** Hartmut Ehrig,Karsten Ehrig,Ulrike Prange,Gabriele Taentzer,2006-05-01 Graphs are widely used to represent structural information in the form of objects and connections between them Graph transformation is the rule based manipulation of graphs an increasingly important concept in computer science and related fields This is the first textbook treatment of the algebraic approach to graph transformation based on algebraic structures and category theory Part I is an introduction to the classical case of graph and typed graph transformation In Part II basic and advanced results are first shown for an abstract form of replacement systems so called adhesive high level replacement systems based on category theory and are then instantiated to several forms of graph and Petri net transformation systems Part III develops typed attributed graph transformation a technique of key relevance in the modeling of visual languages and in model transformation Part IV contains a practical case study on model transformation and a presentation of the AGG attributed graph grammar tool environment Finally the appendix covers the basics of category theory signatures and algebras The book addresses both research scientists and graduate students in computer science mathematics and engineering

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