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and Model Transformations in Business-Driven Development -- Assuring Consistency of Business Process Models and Web Services Using Visual Contracts -- Transforming Scene Graphs Using Triple Graph Grammars – A Practice Report -- Using Graph Transformation to Support Collaborative Ontology Evolution -- Modelling of Longitudinal Information Systems with Graph Grammars -- Meta-modeling and Domain-Specific Language -- A Generic Layout Algorithm for Meta-model Based Editors -- Domain Specific Languages with Graphical and Textual Views -- Generating Domain-Specific Model Editors with Complex Editing Commands -- Specifying Domain-Specific Refactorings for AndroMDA Based on Graph Transformation -- New Graph Transformation Approaches -- Defining Abstract Graph Views as Module Interfaces -- Programmed Graph Rewriting with DEVS -- Relational Growth Grammars – A Parallel Graph Transformation Approach with Applications in Biology and Architecture -- Applications and Rewriting of Omnigraphs – Exemplified in the Domain of MDD -- Program Transformation Applications -- A Single-Step Term-Graph Reduction System for Proof Assistants -- Shaped Generic Graph Transformation -- Code Graph Transformations for Verifiable Generation of SIMD-Parallel Assembly Code -- Graph Rewriting for Hardware Dependent Program Optimizations -- Dynamic System Modeling -- Transforming Timeline Specifications into Automata for Runtime Monitoring -- Visualization, Simulation and Analysis of Reconfigurable Systems -- Communities of Autonomous Units for Pickup and Delivery Vehicle Routing -- Efficient Graph Matching with Application to Cognitive Automation -- Model Driven Software Development Applications -- Checking and Enforcement of Modeling Guidelines with Graph Transformations -- Aspect Diagrams for UML Activity Models -- Model-Driven Software Development with Graph Transformations: A Comparative Case Study -- Verification and Synthesis of OCL Constraints Via Topology Analysis -- Queries, Views, and Model Transformations -- State of the Art of QVT: A Model Transformation Language Standard -- Adaptable Support for Queries and Transformations for the DRAGOS Graph-Database -- New Pattern Matching and Rewriting Concepts -- Applying a Grouping Operator in Model Transformations -- Modeling Successively Connected Repetitive Subgraphs -- Simulating Set-Valued Transformations with Algorithmic Graph Transformation Languages -- Recursive Graph Pattern Matching -- A First Experimental Evaluation of Search Plan Driven Graph Pattern Matching -- Graph Transformation Tool Contest -- AGTIVE 2007 Graph Transformation Tool Contest -- Ludo: A Case Study for Graph Transformation Tools -- Generation of Sierpinski Triangles: A Case Study for Graph Transformation Tools -- Transformation of UML Models to CSP: A Case Study for Graph Transformation Tools -- Graph Transformation Tools -- The EMF Model Transformation Framework -- GrGen.NET: A Fast, Expressive, and General Purpose Graph Rewrite Tool -- The Modelling Platform GroIMP and the Programming Language XL -- Metamodeling with MOFLON -- The Graph Rewriting Language and Environment PROGRES -- Algorithm and Tool for Ontology Integration Based on Graph Rewriting -- Generating Eclipse Editor Plug-Ins Using Tiger -- From Graph Transformation to OCL Using USE -- Introducing the VMTS Mobile Toolkit.

Sommario/riassunto

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.