1. Record Nr. UNISA996465298803316

Titolo	Applications of Graph Transformations with Industrial Relevance [[electronic resource]] : 4th International Symposium, AGTIVE 2011, Budapest, Hungary, October 4-7, 2011, Revised Selected Papers / / edited by Andy Schürr, Dániel Varró, Gergely Varró
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2012
ISBN	3-642-34176-4
Edizione	[1st ed. 2012.]
Descrizione fisica	1 online resource (XII, 255 p. 133 illus.)
Collana	Programming and Software Engineering ; ; 7233
Disciplina	004.015115
Soggetti	Computer science—Mathematics Data structures (Computer science) Software engineering Algorithms Computer logic Mathematical logic Discrete Mathematics in Computer Science Data Structures Software Engineering Algorithm Analysis and Problem Complexity Logics and Meanings of Programs Mathematical Logic and Formal Languages
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and author index.
Nota di contenuto	Best Practices to Model Business Services in Complex IT Environments -- Drools: A Rule Engine for Complex Event Processing -- Graph Transformation Concepts for Meta-model Evolution Guaranteeing Permanent Type Conformance throughout Model Migration -- A Graph Transformation-Based Semantics for Deep Metamodelling -- Reusable Graph Transformation Templates -- Towards an Automated 3D Reconstruction of Plant Architecture.- Generating Graph Transformation Rules from AML/GT State Machine Diagrams for

Building Animated Model Editors -- AGG 2.0 – New Features for Specifying and Analyzing Algebraic Graph Transformations -- Integration of a Pattern-Based Layout Engine into Diagram Editors -- Tool Demonstration of the Transformation Judge -- Knowledge-Based Graph Exploration Analysis.- Graph Grammar Induction as a Parser-Controlled Heuristic Search Process.- Planning Self-adaption with Graph Transformations -- From Graph Transformation Units via MiniSat to GrGen.NET -- Locality in Reasoning about Graph Transformations -- Contextual Hyperedge Replacement -- The Added Value of Programmed Graph Transformations – A Case Study from Software Configuration Management -- A Case Study Based Comparison of ATL and SDM -- Applying Advanced TGG Concepts for a Complex Transformation of Sequence Diagram Specifications to Timed Game Automata -- Automatic Conformance Testing of Optimized Triple Graph Grammar Implementations. Drools: A Rule Engine for Complex Event Processing -- Graph Transformation Concepts for Meta-model Evolution Guaranteeing Permanent Type Conformance throughout Model Migration -- A Graph Transformation-Based Semantics for Deep Metamodelling -- Reusable Graph Transformation Templates -- Towards an Automated 3D Reconstruction of Plant Architecture.
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Sommario/riassunto

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.