

1. Record Nr.	UNISA996466032903316
Titolo	Graph Transformations in Computer Science [[electronic resource] ] : International Workshop, Dagstuhl Castle, Germany, January 4 - 8, 1993. Proceedings // edited by Hans J. Schneider, Hartmut Ehrig
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 1994
ISBN	3-540-48333-0
Edizione	[1st ed. 1994.]
Descrizione fisica	1 online resource (VIII, 404 p.)
Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 776
Disciplina	006.4
Soggetti	<p>Pattern recognition</p> <p>Computers</p> <p>Mathematical logic</p> <p>Combinatorics</p> <p>Software engineering</p> <p>Data structures (Computer science)</p> <p>Pattern Recognition</p> <p>Theory of Computation</p> <p>Mathematical Logic and Formal Languages</p> <p>Software Engineering</p> <p>Data Structures</p>
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	<p>Path-controlled graph grammars for multiresolution image processing and analysis -- Syntax and semantics of hybrid database languages -- Decomposability helps for deciding logics of knowledge and belief -- Extending graph rewriting with copying -- Graph-grammar semantics of a higher-order programming language for distributed systems -- Abstract graph derivations in the double pushout approach -- Note on standard representation of graphs and graph derivations -- Jungle rewriting: An abstract description of a lazy narrowing machine -- Recognizable sets of graphs of bounded tree-width -- Canonical derivations for high-level replacement systems -- A computational model for generic graph functions -- Graphs and designing -- ESM</p>

systems and the composition of their computations -- Relational structures and their partial morphisms in view of single pushout rewriting -- Single pushout transformations of equationally defined graph structures with applications to actor systems -- Parallelism in single-pushout graph rewriting -- Semantics of full statecharts based on graph rewriting -- Contextual occurrence nets and concurrent constraint programming -- Uniform-modelling in graph grammar specifications -- Set-theoretic graph rewriting -- On relating rewriting systems and graph grammars to event structures -- Logic based structure rewriting systems -- Guaranteeing safe destructive updates through a type system with uniqueness information for graphs -- Amalgamated graph transformations and their use for specifying AGG — an algebraic graph grammar system.

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## Sommario/riassunto

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.

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