

1. Record Nr.	UNINA9910143621203321
Titolo	UML 2001 - The Unified Modeling Language. Modeling Languages, Concepts, and Tools : 4th International Conference, Toronto, Canada, October 1-5, 2001. Proceedings // edited by Martin Gogolla, Cris Kobryn
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2001
ISBN	3-540-45441-1
Edizione	[1st ed. 2001.]
Descrizione fisica	1 online resource (XIV, 514 p.)
Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 2185
Disciplina	005.3
Soggetti	Software engineering Computer programming Programming languages (Electronic computers) Management information systems Computer science Information technology Business—Data processing Software Engineering/Programming and Operating Systems Programming Techniques Programming Languages, Compilers, Interpreters Software Engineering Management of Computing and Information Systems IT in Business
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 at the end of each chapters and index.
Nota di contenuto	Invited Talk -- The Preacher at Arrakeen -- Metamodeling -- An Action Semantics for MML -- The Essence of Multilevel Metamodeling -- Mapping between Levels in the Metamodel Architecture -- Activity Diagrams -- An Execution Algorithm for UML Activity Graphs -- Timing Analysis of UML Activity Diagrams -- UML Activity Diagrams as a Workflow Specification Language -- OCL -- On Querying UML Data

Models with OCL -- OCL as a Specification Language for Business Rules in Database Applications -- A Formal Semantics for OCL 1.4 -- Architecture and Patterns -- Refactoring UML Models -- UML Support for Designing Software Systems as a Composition of Design Patterns -- Integrating the ConcernBASE Approach with SADL -- Analysis and Testing -- The Message Paradigm in Object-Oriented Analysis -- A UML-Based Approach to System Testing -- Performance and Databases -- UML Modelling and Performance Analysis of Mobile Software Architectures -- Extending UML for Object-Relational Database Design -- Invited Talk -- Understanding UML — Pains and Rewards -- Graph Transformations -- A Formal Semantics of UML State Machines Based on Structured Graph Transformation -- A Visualization of OCL Using Collaborations -- Rule-Based Specification of Behavioral Consistency Based on the UML Meta-model -- Real-Time and Embedded Systems -- A New UML Profile for Real-Time System Formal Design and Validation -- Representing Embedded System Sequence Diagrams as a Formal Language -- Scenario-Based Monitoring and Testing of Real-Time UML Models -- Associations and Ontology -- Semantics of the Minimum Multiplicity in Ternary Associations in UML -- Extending UML to Support Ontology Engineering for the Semantic Web -- On Associations in the Unified Modelling Language -- Statecharts -- iState: A Statechart Translator -- Specifying Concurrent System Behavior and Timing Constraints Using OCL and UML -- Formalization of UML-Statecharts -- Invited Talk -- UML for Agent-Oriented Software Development: The Tropos Proposal -- Components -- A UML Meta-model for Contract Aware Components -- A Specification Model for Interface Suites -- Use Cases -- Against Use Case Interleaving -- Estimating Software Development Effort Based on Use Cases — Experiences from Industry -- Workshops and Tutorials -- Workshops and Tutorials at the UML 2001 Conference.

Sommario/riassunto

This book constitutes the refereed proceedings of the 4th International Conference on the Unified Modeling Language, 2001, held in Toronto, Canada, in October 2001. The 33 revised full papers presented together with one invited paper were carefully reviewed and selected from a total of 122 abstracts and 102 papers submitted. The papers are organized in topical sections on metamodeling, activity diagrams, OCL, architecture and patterns, analysis and testing, performance and databases, graph transformations, real-time and embedded systems, associations and ontology, statecharts, components, and use cases.
