

Tony Clark
Jos Warmer (Eds.)

Object Modeling with the OCL

The Rationale behind
the Object Constraint Language



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Object Modeling With The Ocl The Rationale Behind The Object Constraint Language

Dirk Draheim, Gerald Weber



Object Modeling With The Ocl The Rationale Behind The Object Constraint Language:

Object Modeling with the OCL Tony Clark, Jos Warmer, 2003-07-31 As part of the UML standard OCL has been adopted by both professionals in industry and by academic researchers and is one of the most widely used languages for expressing object oriented system properties This book contains key contributions to the development of OCL Most papers are developments of work reported at different conferences and workshops This unique compilation addresses many important issues faced by advanced professionals and researchers in object modeling like e g real time constraints type checking and constraint modeling *The Object Constraint Language* Jos B. Warmer, Anneke G. Kleppe, 2003 bull Learn to better leverage the significant power of UML 2.0 and the Model Driven Architecture standard bull The OCL helps developers produce better software by adding vital definition to their designs bull Updated to reflect the latest version of the standard OCL 2.0

Object Modeling with the Ocl Tony Clark, Jos Warmer, 2014-01-15 *Practical Formal Software Engineering* Bruce Mills, 2009-01-19 Based around a theme of the construction of a game engine this textbook is for final year undergraduate and graduate students emphasising formal methods in writing robust code quickly This book takes an unusual engineering inspired approach to illuminate the creation and verification of large software systems Where other textbooks discuss business practices through generic project management techniques or detailed rigid logic systems this book examines the interaction between code in a physical machine and the logic applied in creating the software These elements create an informal and rigorous study of logic algebra and geometry through software Assuming prior experience with C/C++ or Java programming languages chapters introduce UML OCL and Z from scratch Extensive worked examples motivate readers to learn the languages through the technical side of software science *Program Development in Computational Logic* Maurice Bruynooghe, Kung-Kiu Lau, 2004-06-17 1 The tenth anniversary of the LOPSTR symposium provided the incentive for this volume LOPSTR started in 1991 as a workshop on logic program synthesis and transformation but later it broadened its scope to logic based program development in general that is program development in computational logic and hence the title of this volume The motivating force behind LOPSTR has been the belief that declarative paradigms such as logic programming are better suited to program development tasks than traditional non declarative ones such as the imperative paradigm Specification synthesis transformation or specialization analysis debugging and verification can all be given logical foundations thus providing a unifying framework for the whole development process In the past 10 years or so such a theoretical framework has indeed begun to emerge Even tools have been implemented for analysis verification and specialization However it is fair to say that so far the focus has largely been on programming in the small So the future challenge is to apply or extend these techniques to programming in the large in order to tackle software engineering in the real world Returning to this volume our aim is to present a collection of papers that reflect significant research efforts over the past 10 years These papers cover the whole development process specification synthesis analysis transformation and specialization as well as

semantics and systems **Automated Validation & Verification of UML/OCL Models Using Satisfiability Solvers** Nils Przigoda, Robert Wille, Judith Przigoda, Rolf Drechsler, 2018-01-22 This book provides a comprehensive discussion of UML OCL methods and design flow for automatic validation and verification of hardware and software systems While the presented flow focuses on using satisfiability solvers the authors also describe how these methods can be used for any other automatic reasoning engine Additionally the design flow described is applied to a broad variety of validation and verification tasks The authors also cover briefly how non functional properties such as timing constraints can be handled with the described flow **Reusing OCL in the Definition of Imperative Languages** Fabian Büttner, 2011 The Object Constraint Language OCL has proven to be a valuable ingredient for the specification of UML models It allows to formulate logical propositions for models that typically cannot be expressed in the visual modeling paradigms of UML A similar textual ingredient is required for the imperative specification of behavior in certain applications of UML most prominently Executable UML models and model transformation There is no such imperative language in the UML standard but there are several candidates for such a language that are based on OCL for expressions One of them is ImperativeOCL which is part of the OMG Query Views Transformations QVT standard However the embedding of OCL into several of these languages is what we call a non modular embedding Such a non modular embedding results in problems w r t to language semantics and or sets up obstacles for the reuse of existing OCL tools and instruments In our work we therefore define requirements for a modular embedding of OCL into an imperative language We introduce our language SOIL Simple OCL based Imperative Language which embeds OCL in a modular way We provide an informal description of SOIL as well as a formal definition of the language syntax and semantics and prove its consistency and type safety We describe applications of our approach in two fields first the extension of the UML based Specification Environment USE by an imperative language and second the development of the model transformation tool XGenerator2 that has been successfully applied in several eGovernment projects Our work makes three major contributions First we provide a critical review of the embedding of OCL into existing programming languages Second we provide a simple but already useful OCL based imperative language with a sound and formal semantics that can be implemented out of the box using existing OCL engines Third our work contributes a general guideline for a safe embedding of OCL into other languages **Advances in Modeling Agricultural Systems** Petraq Papajorgji, Panos M. Pardalos, 2009-02-28 Agriculture has experienced a dramatic change during the past decades The change has been structural and technological Structural changes can be seen in the size of current farms not long ago agricultural production was organized around small farms whereas nowadays the agricultural landscape is dominated by large farms Large farms have better means of applying new technologies and therefore technological advances have been a driving force in changing the farming structure New technologies continue to emerge and their mastery and use in requires that farmers gather more information and make more complex technological choices In particular the advent of the Internet

has opened vast opportunities for communication and business opportunities within the agricultural community. But at the same time it has created another class of complex issues that need to be addressed sooner rather than later. Farmers and agricultural researchers are faced with an overwhelming amount of information they need to analyze and synthesize to successfully manage all the facets of agricultural production. This daunting challenge requires new and complex approaches to farm management. A new type of agricultural management system requires active cooperation among multidisciplinary and multi-institutional teams and refining of existing and creation of new analytical theories with potential use in agriculture. Therefore new management agricultural systems must combine the newest achievements in many scientific domains such as agronomy, economics, mathematics and computer science to name a few.

Formal Methods: Foundations and Applications

Adenilson Simao, Carroll Morgan, 2011-10-28. This book constitutes the thoroughly refereed post-conference proceedings of the 14th Brazilian Symposium on Formal Methods SBMF 2011 held in Sao Paulo, Brazil, in September 2011, co-located with CBSOFT 2011, the second Brazilian Conference on Software Theory and Practice. The 13 revised full papers were carefully reviewed and selected from 37 submissions. The papers presented cover a broad range of foundational and methodological issues in formal methods for the design and analysis of software and hardware systems as well as applications in various domains.

Fundamental Approaches to Software Engineering Matthew B. Dwyer, Antonia Lopes, 2007-07-04. This book constitutes the refereed proceedings of the 10th International Conference on Fundamental Approaches to Software Engineering FASE 2007 held in Braga, Portugal, in March/April 2007 as part of ETAPS 2007, the Joint European Conferences on Theory and Practice of Software. It covers evolution and agents, model-driven development, tool demonstrations, distributed systems, specification, services, testing, analysis, and design.

Information Systems Development Olegas Vasilecas, Albertas Caplinskas, Gregory Wojtkowski, Wita Wojtkowski, Jože Zupancic, Stanislaw Wrycza, 2005-07-22. This volume is comprised of the proceedings of the 13th International Conference on Information Systems Development held August 26th-28th 2004 at Vilnius Gediminas Technical University, Vilnius, Lithuania. The aim of this volume is to provide a forum for the research and practices addressing current issues associated with Information Systems Development (ISD). Every day new technologies, applications, and methods raise the standards for the quality of systems expected by organizations as well as end users. All are becoming dependent on systems' reliability, scalability, and performance. Thus it is crucial to exchange ideas and experiences and to stimulate exploration of new solutions. This proceedings provides a forum for both technical and organizational issues.

Engineering Modeling Languages Benoit Combemale, Robert France, Jean-Marc Jézéquel, Bernhard Rumpe, James Steel, Didier Vojtisek, 2016-11-17. Written by foremost experts in the field, *Engineering Modeling Languages* provides end-to-end coverage of the engineering of modeling languages to turn domain knowledge into tools. The book provides a definition of different kinds of modeling languages, their instrumentation with tools such as editors, interpreters, and generators, the integration of multiple modeling languages to achieve a system view, and the validation of both models and tools. Industrial

case studies across a range of application domains are included to attest to the benefits offered by the different techniques. The book also includes a variety of simple worked examples that introduce the techniques to the novice user. The book is structured in two main parts. The first part is organized around a flow that introduces readers to Model Driven Engineering (MDE) concepts and technologies in a pragmatic manner. It starts with definitions of modeling and MDE and then moves into a deeper discussion of how to express the knowledge of particular domains using modeling languages to ease the development of systems in the domains. The second part of the book presents examples of applications of the model driven approach to different types of software systems. In addition to illustrating the unification power of models in different software domains, this part demonstrates applicability from different starting points: language, business knowledge, standard, etc. and focuses on different software engineering activities such as Requirement Engineering, Analysis, Design, Implementation, and V&V. Each chapter concludes with a small set of exercises to help the reader reflect on what was learned or to dig further into the examples. Many examples of models and code snippets are presented throughout the book, and a supplemental website features all of the models and programs and their associated tooling discussed in the book.

Integration of Software Specification Techniques for Applications in Engineering Hartmut Ehrig, Werner Damm, Jörg Desel, Martin Große-Rhode, Wolfgang Reif, Eckehard Schnieder, Engelbert Westkämper, 2011-04-05. This book constitutes the documentation of the scientific outcome of the priority program Integration of Software Specification Techniques for Applications in Engineering sponsored by the German Research Foundation (DFG). It includes main contributions of the projects of the priority program and of additional international experts in the field. Some of the papers included were presented at the related Third International Workshop on the topic INT 2004 held in Barcelona, Spain, in March 2004. The 25 revised full papers presented together with 6 section introductions by the volume editors were carefully reviewed and selected for inclusion in the book. The papers are organized in topical sections on reference case study, production automation, reference case study, traffic control systems, petri nets, and related approaches in engineering, charts, verification, and integration modeling.

Requirements Engineering: Foundation for Software Quality Pete Sawyer, Barbara Paech, Patrick Heymans, 2007-06-28. This book constitutes the refereed proceedings of the 13th International Working Conference on Requirements Engineering Foundation for Software Quality (REFSQ 2007) held in Trondheim, Norway. It covers goal-driven requirements engineering, RE products and product lines, value-based RE, and the value of RE requirements elicitation, requirements specification, industrial experience of RE, and requirements quality and quality requirements.

Form-Oriented Analysis Dirk Draheim, Gerald Weber, 2005-10-14. Form-based applications range from simple web shops to complex enterprise resource planning systems. Draheim and Weber adapt well-established basic modeling techniques in a novel way to achieve a modeling framework optimized for this broad application domain. They introduce new modeling artifacts such as page diagrams and form storyboards and separate dialogue patterns to allow for reuse. In their

implementation they have developed new constructs such as typed server pages and tools for forward and reverse engineering of presentation layers The methodology is explained using an online bookshop as a running example in which the user can experience the modeling concepts in action The combination of theoretical achievements and hands on practical advice and tools makes this book a reference work for both researchers in the areas of software architectures and submit response style user interfaces and professionals designing and developing such applications More information and additional material is also available online The Unified Modeling Language. "UML" '98: Beyond the Notation Jean

Bezivin, Pierre-Alain Muller, 2004-06-30 This volume contains mainly the revised versions of papers presented at the workshop 98 Beyond the Notation that took place in Mulhouse France on June 3 4 1998 We thank all those that have made this possible and particularly all the people in Mulhouse that worked hard to make this meeting a success with such a short delay between the announcement and the realization We are specially grateful to Nathalie Gaertner who put in a tremendous amount of effort in the initial preparation of the workshop We were pleasantly surprised of the quality of the submitted material and of the level of the technical exchanges at the Mulhouse meeting More than one hundred attendees from about twenty different countries representing the main actors in the UML research and development scene gathered in Mulhouse for two full study days We would like to express our deepest appreciation to the authors of submitted papers the editorial committee for this volume the program committee for the initial workshop the external referees and many others who contributed towards the final contents of this volume April 1999 Jean Bézivin Pierre Alain Muller **Advances in Computing and Information**

Technology Natarajan Meghanathan, Dhinakaran Nagamalai, Nabendu Chaki, 2012-08-11 The international conference on Advances in Computing and Information technology ACITY 2012 provides an excellent international forum for both academics and professionals for sharing knowledge and results in theory methodology and applications of Computer Science and Information Technology The Second International Conference on Advances in Computing and Information technology ACITY 2012 held in Chennai India during July 13 15 2012 covered a number of topics in all major fields of Computer Science and Information Technology including networking and communications network security and applications web and internet computing ubiquitous computing algorithms bioinformatics digital image processing and pattern recognition artificial intelligence soft computing and applications Upon a strength review process a number of high quality presenting not only innovative ideas but also a founded evaluation and a strong argumentation of the same were selected and collected in the present proceedings that is composed of three different volumes **Designing Data-Intensive Web Applications** Stefano

Ceri, Piero Fraternali, Aldo Bongio, Marco Brambilla, Sara Comai, Maristella Matera, 2003-01-04 The most prominent Web applications in use today are data intensive Scores of database management systems across the Internet access and maintain large amounts of structured data for e commerce on line trading banking digital libraries and other high volume sites Developing and maintaining these data intensive applications is an especially complex multi disciplinary activity requiring all

the tools and techniques that software engineering can provide This book represents a breakthrough for Web application developers Using hundreds of illustrations and an elegant intuitive modeling language the authors all internationally known database researchers present a methodology that fully exploits the conceptual modeling approach of software engineering from idea to application Readers will learn not only how to harness the design technologies of relational databases for use on the Web but also how to transform their conceptual designs of data intensive Web applications into effective software components A fully self contained introduction and practitioner s guide suitable for both technical and non technical members of staff as well as students A methodology development process and notation WebML based on common practice but optimized for the unique challenges of high volume Web applications Completely platform and product independent even the use of WebML is optional Based on well known industry standards such as UML and the Entity Relationship Model Enhanced by its own Web site <http://www.webml.org> containing additional examples papers teaching materials developers resources and exercises with solutions

Model-Driven Software Development: Integrating Quality Assurance Rech, Jürg, Bunse, Christian, 2008-08-31 Covers important concepts issues trends methodologies and technologies in quality assurance for model driven software development

Enterprise Information Systems: Concepts, Methodologies, Tools and Applications Management Association, Information Resources, 2010-09-30 This three volume collection titled Enterprise Information Systems Concepts Methodologies Tools and Applications provides a complete assessment of the latest developments in enterprise information systems research including development design and emerging methodologies Experts in the field cover all aspects of enterprise resource planning ERP e commerce and organizational social and technological implications of enterprise information systems

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