



Oscar Pastor  
Juan Carlos Molina

# Model-Driven Architecture in Practice

A Software Production Environment  
Based on Conceptual Modeling

 Springer

# Model Driven Architecture In Practice A Software Production Environment Based On Conceptual Modeling

**Bernhard Steffen, Christel Baier, Mark  
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Hinchey, Tiziana Margaria**

## **Model Driven Architecture In Practice A Software Production Environment Based On Conceptual Modeling:**

**Model-Driven Architecture in Practice** Oscar Pastor, Juan Carlos Molina, 2007-06-14 Formal specification languages object oriented methods CASE tools component based software production agent oriented aspect oriented During the last two decades many techniques have been proposed from both research and industry in order to generate a correct software product from a higher level system specification Nevertheless the many failures in achieving this goal have resulted in scepticism when facing any new proposal that offers a press the button get all the code strategy And now the hype around OMG s MDA has given a new push to these strategies Oscar Pastor and Juan Carlos Molina combine a sound theoretical approach based on more than 10 years research with industrial strength and practical software development experience They present a software process based on model transformation technology thus making the statement the model is the code instead of the common the code is the model finally come true They clearly explain which conceptual primitives should be present in a system specification how to use UML to properly represent this subset of basic conceptual constructs how to identify just those diagrams and modeling constructs that are actually required to create a meaningful conceptual schema and finally how to accomplish the transformation process between the problem space and the solution space Their approach is fully supported by commercially available tools and the subsequent software production process is dramatically more efficient than today s conventional software development processes saving many man days of work For software developers and architects project managers and people responsible for quality assurance this book introduces all the relevant information required to understand and put MDA into industrial practice

**Model-Driven Architecture in Practice** Oscar Pastor, Juan Carlos Molina, 2007-06-20 This book introduces all the relevant information required to understand and put Model Driven Architecture MDA into industrial practice It clearly explains which conceptual primitives should be present in a system specification how to use UML to properly represent this subset of basic conceptual constructs how to identify just those diagrams and modeling constructs that are actually required to create a meaningful conceptual schema and how to accomplish the transformation process between the problem space and the solution space The approach is fully supported by commercially available tools

Handbook of Conceptual Modeling David W. Embley, Bernhard Thalheim, 2012-04-23 Conceptual modeling is about describing the semantics of software applications at a high level of abstraction in terms of structure behavior and user interaction Embley and Thalheim start with a manifesto stating that the dream of developing information systems strictly by conceptual modeling as expressed in the phrase the model is the code is becoming reality The subsequent contributions written by leading researchers in the field support the manifesto s assertions showing not only how to abstractly model complex information systems but also how to formalize abstract specifications in ways that let developers complete programming tasks within the conceptual model itself They are grouped into sections on programming with conceptual models structure modeling process modeling user interface modeling and special challenge areas such as

conceptual geometric modeling information integration and biological conceptual modeling The Handbook of Conceptual Modeling collects in a single volume many of the best conceptual modeling ideas techniques and practices as well as the challenges that drive research in the field Thus it is much more than a traditional handbook for advanced professionals as it also provides both a firm foundation for the field of conceptual modeling and points researchers and graduate students towards interesting challenges and paths for how to contribute to this fundamental field of computer science

**Conceptual Modeling** Isabelle Comyn-Wattiau, Katsumi Tanaka, Il-Yeol Song, Shuichiro Yamamoto, Motoshi Saeki, 2016-11-07 This book constitutes the refereed proceedings of the 345th International Conference on Conceptual Modeling ER 2016 held in Gifu Japan in November 2016 The 23 full and 18 short papers presented together with 3 keynotes were carefully reviewed and selected from 113 submissions The papers are organized in topical sections on Analytics and Conceptual Modeling Conceptual Modeling and Ontologies Requirements Engineering Advanced Conceptual Modeling Semantic Annotations Modeling and Executing Business Processes Business Process Management and Modeling Applications and Experiments of Conceptual Modeling Schema Mapping Conceptual Modeling Guidance and Goal Modeling

*Model-Driven Engineering of Information Systems* Liviu Gabriel Cretu, Florin Dumitriu, 2014-09-26 This title includes a number of Open Access chapters Model driven engineering MDE is the automatic production of software from simplified models of structure and functionality It mainly involves the automation of the routine and technologically complex programming tasks thus allowing developers to focus on the true value adding functionality

*Model-Driven Engineering and Software Development* Slimane Hammoudi, Luís Ferreira Pires, Bran Selic, 2019-01-31 This book constitutes thoroughly revised and selected papers from the 6th International Conference on Model Driven Engineering and Software Development MODELSWARD 2018 held in Funchal Madeira Portugal in January 2018 The 22 thoroughly revised and extended papers presented in this volume were carefully reviewed and selected from 101 submissions They contribute to the development of highly relevant research trends in model driven engineering and software development such as innovative methods for MDD based development and testing of web based applications and user interfaces support for development of Domain Specific Languages DSLs MDD based application development on multiprocessor platforms advances in MDD tooling formal semantics and behaviour modelling and MDD based product line engineering

*TraceME: A Traceability-Based Method for Conceptual Model Evolution* Marcela Ruiz, 2018-05-03 This book presents TraceME a traceability based method for conceptual model evolution whose general purpose is to support the evolution of information systems By providing a set of four TraceME chunks TraceME is situational oriented In this way it can be adapted to support different evolution projects by just assembling the TraceME chunks To facilitate its industrial adoption open source tools were developed and described which support the implementation of the TraceME chunks The work presented highlights various research endeavors for the development of methods and techniques to automate the evolution of software systems It explores the requirements engineering field as a steppingstone to a

successful software development processes In 2017 the underlying PhD dissertation won the CAiSE PhD award granted to outstanding PhD theses in the field of Information Systems Engineering      **The Practice of Enterprise Modeling** Paul Johannesson, John Krogstie, Andreas L. Opdahl, 2011-10-13 This volume constitutes the proceedings of the 4th IFIP WG 8.1 Working Conference on the Practice of Enterprise Modeling held in Oslo Norway during November 2-3 2011 The conference series is a dedicated forum where the use of enterprise modeling EM in practice is addressed by bringing together researchers users and practitioners in order to develop a better understanding of the practice of EM to contribute to improved industrial EM applications and to share knowledge and experiences The 18 papers presented were carefully reviewed and selected from 38 submissions Authored by both researchers and practitioners they reflect the fact that EM encompasses human organizational issues as well as technical aspects related to the development of information systems The papers are organized in five thematic sessions on process modeling business modeling enterprise architecture EM and model driven development In addition two keynotes on EM in an agile world and on intra and inter organizational process mining complete the volume      *Software Process and Product Measurement* Reiner Dumke, 2008-11-12 Annotation This book constitutes the thoroughly refereed post proceedings of the International Workshop on Software Measurement IWSM Mensura 2007 held in Palma de Mallorca Spain in November 2007 The 16 revised full papers presented were carefully reviewed and selected for inclusion in the book The papers deal with aspects of software measurement like function points measurement effort and cost estimates prediction industrial experiences in software measurement planning and implementing measurement measurement based software process improvement best practices in software measurement usability and user interaction measurement measurement of open source projects teaching and learning software measurement as well as new trends and ontologies for software measurement      **Information Modelling and Knowledge Bases XXXI** Ajantha Dahanayake, Janne Huiskonen, Yasushi Kiyoki, Bernhard Thalheim, Hannu Jaakkola, Naofumi Yoshida, 2020-01-06 Information modeling and knowledge bases have become an important area of academic and industry research in the 21st century addressing complexities of modeling that reach beyond the traditional borders of information systems and academic computer science research This book presents 32 reviewed selected and updated papers delivered at the 29th International Conference on Information Modeling and Knowledge Bases EJC2019 held in Lappeenranta Finland from 3 to 7 June 2019 In addition two papers based on the keynote presentations and one paper edited from the discussion of the panel session are included in the book The conference provided a forum to exchange scientific results and experience and attracted academics and practitioners working with information and knowledge The papers cover a wide range of topics ranging from knowledge discovery through conceptual and linguistic modeling knowledge and information modeling and discovery cross cultural communication and social computing environmental modeling and engineering and multimedia data modeling and systems to complex scientific problem solving The conference presentation sessions Learning and Linguistics

Systems and Processes Data and Knowledge Representation Models and Interface Formalizations and Reasoning Models and Modeling Machine Learning Models and Programming Environment and Predictions and Emotion Modeling and Social Networks reflect the main themes of the conference The book also includes 2 extended publications of keynote addresses Philosophical Foundations of Conceptual Modeling and Sustainable Solid Waste Management using Life Cycle Modeling for Environmental Impact Assessment as well as additional material covering the discussion and findings of the panel session Providing an overview of current research in the field the book will be of interest to all those working with information systems information modeling and knowledge bases

**Advances in Conceptual Modeling - Challenges and Opportunities** Il-Yeol Song, Mario Piattini, Yi-Ping Phoebe Chen, Sven Hartmann, Fabio Grandi, Andreas L. Opdahl, Fernando Ferri, Patrizia Grifoni, Maria Chiara Caschera, Colette Rolland, Carson Woo, Camille Salinesi, Christophe Claramunt, Flavius Frasinca, Geert-Jan Houben, Philippe Thiran, 2008-10-10 This book constitutes the refereed joint proceedings of seven international workshops held in conjunction with the 27th International Conference on Conceptual Modeling ER 2008 in Barcelona Spain in October 2008 The 42 revised full papers presented were carefully reviewed and selected from 108 submissions Topics addressed by the workshops are conceptual modeling for life sciences applications CMLSA 2008 evolution and change in data management ECDM 2008 foundations and practices of UML FP UML 2008 modeling mobile applications and services M2AS 2008 requirements intentions and goals in conceptual modeling RIGiM 2008 semantic and conceptual issues in geographic information systems SeCoGIS 2008 and Web information systems modeling WISM 2008

Software Engineering Techniques Applied to Agricultural Systems Petraq J. Papajorgji, Panos M. Pardalos, 2014-07-08 Software Engineering Techniques Applied to Agricultural Systems presents cutting edge software engineering techniques for designing and implementing better agricultural software systems based on the object oriented paradigm and the Unified Modeling Language UML The focus is on the presentation of rigorous step by step approaches for modeling flexible agricultural and environmental systems starting with a conceptual diagram representing elements of the system and their relationships Furthermore diagrams such as sequential and collaboration diagrams are used to explain the dynamic and static aspects of the software system This second edition includes a new chapter on Object Constraint Language OCL a new section dedicated to the Model VIEW Controller MVC design pattern new chapters presenting details of two MDA based tools the Virtual Enterprise and Olivia Nova and a new chapter with exercises on conceptual modeling It may be highly useful to undergraduate and graduate students as the first edition has proven to be a useful supplementary textbook for courses in mathematical programming in agriculture ecology information technology agricultural operations research methods agronomy and soil science and applied mathematical modeling The book has broad appeal for anyone involved in software development projects in agriculture and to researchers in general who are interested in modeling complex systems From the reviews of the first edition The book will be useful for those interested in gaining a quick understanding of current software

development techniques and how they are applied in practice this is a good introductory text on the application of OOAD UML and design patterns to the creation of agricultural systems It is technically sound and well written Computing Reviews September 2006

*Model-Based Development and Evolution of Information Systems* John Krogstie, 2012-05-17 This book introduces and describes in detail the SEQUAL framework for understanding the quality of models and modeling languages including the numerous specializations of the generic framework and the various ways in which this can be used for different applications Topics and features contains case studies chapter summaries review questions problems and exercises throughout the text in addition to Appendices on terminology and abbreviations presents a thorough introduction to the most important concepts in conceptual modeling including the underlying philosophical outlook on the quality of models describes the basic tasks and model types in information systems development and evolution and the main methodologies for mixing different phases of information system development provides an overview of the general mechanisms and perspectives used in conceptual modeling predicts future trends in technological development and discusses how the role of modeling can be envisaged in this landscape

*The Practice of Enterprise Modeling* Janis Stirna, Anne Persson, 2008-11-07 Enterprise modeling EM has gained substantial popularity both in the academic community and among practitioners A variety of EM methods approaches and tools are developed and offered on the market In practice they are used for various purposes such as business strategy development process restructuring as well as business and IT architecture alignment and governance PoEM 2008 the First IFIP WG 8.1 Working Conference on The Practice of Enterprise Modeling took place in Stockholm Sweden It is the first conference aiming to establish a dedicated forum where the use of EM in practice is addressed by bringing together researchers users and practitioners The goals of PoEM 2008 were to develop a better understanding of the practice of EM to contribute to improved EM practice as well as to share knowledge and experiences The theme of PoEM 2008 was EM in different application contexts e.g. software development including agile development as well as business development governance and change

*The Practice of Enterprise Modeling* Anne Persson, Janis Stirna, 2009-11-16 Enterprise modeling EM has gained substantial popularity both in the academic community and among practitioners A variety of EM methods approaches and tools are being developed and offered on the market In practice they are used for various purposes such as business strategy development process restructuring as well as business and IT architecture alignment and governance PoEM 2009 the second IFIP WG 8.1 Working Conference on The Practice of Enterprise Modeling took place in November in Stockholm Sweden The conference series is a dedicated forum where the use of EM in practice is addressed by bringing together researchers users and practitioners in order to develop a better understanding of the practice of EM to contribute to improved EM practice as well as to share knowledge and experiences PoEM 2009 attracted 41 submissions from many different parts of the world out of which the Program Committee selected 17 high quality papers Among the authors of these papers we find both researchers and practitioners The resulting program reflects the fact that

the topic of EM encompasses human organizational issues as well as more technical aspects related to the development of information systems The program was organized in six thematic sessions Experiences in EM The process of modeling EM in information systems development Model quality and reuse EM for Services modeling New ventures in EM The program also featured two keynotes by experienced EM practitioners H vard D     *Advances in Conceptual Modeling* Sebastian Link,Juan C. Trujillo,2016-10-17 This book constitutes the refereed proceedings of seven workshops and a symposium held at the 35th International Conference on Conceptual Modeling ER 2016 in Gifu Japan The 19 revised full and 3 keynote papers were carefully reviewed and selected out of 52 submissions to the following events Conceptual Modeling for Ambient Assistance and Healthy Ageing AHA 2016 Modeling and Management of Big Data MoBiD 2016 Modeling and Reasoning for Business Intelligence MORE BI 2016 Conceptual Modeling in Requirements and Business Analysis MREBA 2016 Quality of Models and Models of Quality QMMQ 2016 and the Symposium on Conceptual Modeling Education SCME 2016 and Models and Modeling on Security and Privacy WM2SP 2016     *Distributed Simulation* Okan Topçu,Umut Durak, Halit Oğuztüzün, Levent Yilmaz,2016-01-27 This unique text reference provides a comprehensive review of distributed simulation DS from the perspective of Model Driven Engineering MDE illustrating how MDE affects the overall lifecycle of the simulation development process Numerous practical case studies are included to demonstrate the utility and applicability of the methodology many of which are developed from tools available to download from the public domain Topics and features Provides a thorough introduction to the fundamental concepts principles and processes of modeling and simulation MDE and high level architecture Describes a road map for building a DS system in accordance with the MDE perspective and a technical framework for the development of conceptual models Presents a focus on federate simulation environment architectures detailing a practical approach to the design of federations i e simulation member design Discusses the main activities related to scenario management in DS and explores the process of MDE based implementation integration and testing Reviews approaches to simulation evolution and modernization including architecture driven modernization for simulation modernization Examines the potential synergies between the agent DS and MDE methodologies suggesting avenues for future research at the intersection of these three fields Distributed Simulation A Model Driven Engineering Approach is an important resource for all researchers and practitioners involved in modeling and simulation and software engineering who may be interested in adopting MDE principles when developing complex DS systems     Advanced Information Systems Engineering Pascal van Eck,Jaap Gordijn,Roel J. Wieringa,2009-06-06 This book constitutes the refereed proceedings of the 21st International Conference on Advanced Information Systems Engineering CAiSE 2009 held in Amsterdam The Netherlands on June 8 12 2009 The 36 papers presented in this book together with 6 keynote papers were carefully reviewed and selected from 230 submissions The topics covered are model driven engineering conceptual modeling quality and data integration goal oriented requirements engineering requirements and architecture service orientation Web



service orchestration value driven modeling workflow business process modeling and requirements engineering

Enterprise, Business-Process and Information Systems Modeling Ilia Bider, Terry Halpin, John Krogstie, Selmin Nurcan, Erik Proper, Rainer Schmidt, Roland Ukor, 2010-06-07 This book contains the proceedings of two well established scientific events held in connection with the CAiSE conferences relating to the areas of enterprise business processes and information systems modeling The 11th International Workshop on Business Process Modeling Development and Support BPMDS 2010 The 15th International Conference on Exploring Modeling Methods for Systems Analysis and Design EMMSAD 2010 The two events are introduced briefly below BPMDS 2010 BPMDS 2010 was the 11th in a series of workshops that have successfully served as a forum for raising and discussing new ideas in the area of business process development and support The BPMDS series has produced 10 workshops from 1998 to 2009 Eight of these workshops including the last seven BPMDS 2003 BPMDS 2009 were held in conjunction with CAiSE conferences The BPMDS workshops focus on topics relating to IT support for business processes which addresses key issues that are relevant to the continuous development of information systems theory The continued interest in these topics within the industrial and academic IS communities is reflected by the success of the last BPMDS workshops and the emergence of new conferences devoted to this theme Previous BPMDS workshops focused on the different phases in the business process life

cycle as well as the drivers that motivate and initiate business process design and evolution *SOFSEM 2017: Theory and Practice of Computer Science* Bernhard Steffen, Christel Baier, Mark van den Brand, Johann Eder, Mike Hinchey, Tiziana Margaria, 2017-01-09 This book constitutes the refereed proceedings of the 43rd International Conference on Current Trends in Theory and Practice of Computer Science SOFSEM 2017 held in Limerick Ireland in January 2017 The 34 papers presented in this volume were carefully reviewed and selected from 41 submissions They were organized in topical sections named foundations in computer science semantics specification and compositionality theory of mobile and distributed systems verification and automated system analysis petri nets games and relaxed data structures graph theory and scheduling algorithms quantum and matrix algorithms planar and molecular graphs coloring and vertex covers algorithms for strings and formal languages data information and knowledge engineering and software engineering methods tools applications

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