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# Model Driven Architecture

European MDA Workshops: Foundations  
and Applications, MDFA 2003 and MDFA 2004  
Twente, The Netherlands, June 2003 and  
Linköping, Sweden, June 2004  
Revised Selected Papers



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# Model Driven Architecture European Mda Workshops Foundations And Applications Mdafa 2003 And Mda

**Rech, Jörg, Bunse, Christian**



## **Model Driven Architecture European Mda Workshops Foundations And Applications Mdafa 2003 And Mda:**

**Model Driven Architecture** Uwe Aßmann,Mehmet Aksit,Arend Rensink,2005-08-18 Model Driven Architecture MDA is an initiative proposed by the Object Management Group OMG for platform generic software development MDA separates the specification of system functionality from the implementation on a specific platform It is aimed at making software assets more resilient to changes caused by emerging technologies While stressing the importance of modeling the MDA initiative covers a wide spectrum of research areas Further efforts are required to bring them into a coherent approach based on open standards and supported by matured tools and techniques This volume contains the selected papers of two workshops on Model Driven Architecture Foundations and Applications MDAFA MDAFA 2003 held at the University of Twente Twente The Netherlands June 26 27 2003 and MDAFA 2004 held at Linköping University Linköping Sweden June 10 11 2004 The goal of the workshops was to understand the foundations of MDA to share experience in applying MDA techniques and tools and to outline future research directions The workshops organizers encouraged authors of accepted papers to resubmit their papers to a post workshop reviewing process 15 of these papers were accepted to appear in this volume on MDA

*Model Driven Architecture* Uwe Aßmann,Mehmet Aksit,Arend Rensink,2009-09-02 Model Driven Architecture MDA is an initiative proposed by the Object Management Group OMG for platform generic software development MDA separates the specification of system functionality from the implementation on a specific platform It is aimed at making software assets more resilient to changes caused by emerging technologies While stressing the importance of modeling the MDA initiative covers a wide spectrum of research areas Further efforts are required to bring them into a coherent approach based on open standards and supported by matured tools and techniques This volume contains the selected papers of two workshops on Model Driven Architecture Foundations and Applications MDAFA MDAFA 2003 held at the University of Twente Twente The Netherlands June 26 27 2003 and MDAFA 2004 held at Linköping University Linköping Sweden June 10 11 2004 The goal of the workshops was to understand the foundations of MDA to share experience in applying MDA techniques and tools and to outline future research directions The workshops organizers encouraged authors of accepted papers to resubmit their papers to a post workshop reviewing process 15 of these papers were accepted to appear in this volume on MDA

**Model Driven Engineering and Ontology Development** Dragan Gašević,Dragan Djuric,Vladan Devedžić,2009-06-12 Defining a formal domain ontology is generally considered a useful not to say necessary step in almost every software project This is because software deals with ideas rather than with self-evident physical artefacts However this development step is hardly ever done as ontologies rely on well-defined and semantically powerful AI concepts such as description logics or rule-based systems and most software engineers are largely unfamiliar with these Gašević and his co-authors try to fill this gap by detailing how to use model-driven engineering for ontology development on the Semantic Web Part I of their book describes existing technologies tools and standards like XML RDF OWL MDA and UML Part II presents the first detailed description of

OMG's new ODM Ontology Definition Metamodel initiative a specification which is expected to be in the form of an OMG language like UML. Finally Part III is dedicated to applications and practical aspects of developing ontologies using MDA based languages. For this second edition the descriptions of the related standards like MOF, ODM, OCL and OWL have been revised and updated, new chapters introducing the basic principles of model driven engineering, recent research results on metamodeling, Semantic Web rule languages, an introduction to the Atlas Transformation Language ATL and its tool support and last but not least many new examples have been added.

**Model Driven Architecture - Foundations and Applications** Alan Hartman, David Kreische, 2005-10-26. This book constitutes the refereed proceedings of the First European Conference Workshops on Model Driven Architecture Foundations and Applications ECMDA FA 2005 held in Nuremberg, Germany in November 2005. The 24 revised full papers presented, 9 papers from the applications track and 15 from the foundations track, were carefully reviewed and selected from 82 submissions. The latest and most relevant information on model driven software engineering in the industrial and academic spheres is provided. The papers are organized in topical sections on MDA development processes, MDA for embedded and real time systems, MDA and component based software engineering, metamodeling, model transformation and model synchronization and consistency.

**Model Driven Engineering Languages and Systems** Oscar Nierstrasz, 2006-09-22. This book constitutes the refereed proceedings of the 9th International Conference on Model Driven Engineering Languages and Systems, formerly UML conferences MoDELS 2006. The book presents 51 revised full papers and 2 invited papers. Discussion is organized in topical sections on evaluating UML, MDA in software development, concrete syntax, applying UML to interaction and coordination aspects, model integration, formal semantics of UML, security, model transformation tools and implementation, and more.

**Model Driven Architecture and Ontology Development** Dragan Gašević, Dragan Djurić, Vladan Devedžić, 2006-11-22. Defining a formal domain ontology is considered a useful, not to say necessary, step in almost every software project. This is because software deals with ideas rather than with self-evident physical artefacts. However, this development step is hardly ever done as ontologies rely on well-defined and semantically powerful AI concepts such as description logics or rule-based systems and most software engineers are unfamiliar with these. This book fills this gap by covering the subject of MDA application for ontology development on the Semantic Web. The writing is technical yet clear and is illustrated with examples. The book is supported by a website.

**Universal Traceability. A Comprehensive, Generic, Technology-Independent, and Semantically Rich Approach** Hannes Schwarz, 2012. Traceability describes the ability of stakeholders to understand and follow relationships between artifacts that play some role in software development. It is essential for many development tasks, e.g. quality assurance, requirements management or software maintenance. Aiming to overcome various deficiencies of existing traceability concepts, this book presents a universal approach describing required features of traceability solutions. This includes a technology-independent generic template for the definition of semantically rich traceability relationship types and

technology independent patterns for the retrieval of traceability information reflecting generic problems common to traceability applications The universal approach is implemented on the basis of two concrete technologies which facilitate comprehensive traceability the TGraph approach and OWL ontologies The applicability of the approach is shown by three case studies dealing with the reuse of software artifacts process model refinement and requirements management respectively

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

**Model Management and Analytics for Large Scale Systems** Bedir Tekinerdogan, Önder Babur, Loek Cleophas, Mark van den Brand, Mehmet Aksit, 2019-09-14 Model Management and Analytics for Large Scale Systems covers the use of models and related artefacts such as metamodels and model transformations as central elements for tackling the complexity of building systems and managing data With their increased use across diverse settings the complexity size multiplicity and variety of those artefacts has increased Originally developed for software engineering these approaches can now be used to simplify the analytics of large scale models and automate complex data analysis processes Those in the field of data science will gain novel insights on the topic of model analytics that go beyond both model based development and data analytics This book is aimed at both researchers and practitioners who are interested in model based development and the analytics of large scale models ranging from big data management and analytics to enterprise domains The book could also be used in graduate courses on model development data analytics and data management Identifies key problems and offers solution approaches and tools that have been developed or are necessary for model management and analytics Explores basic theory and background current research topics related challenges and the research directions for model management and analytics Provides a complete overview of model management and analytics frameworks the different types of analytics descriptive diagnostics predictive and prescriptive the required modelling and method steps and important future directions

*Model Driven Engineering Languages and Systems* Lionel Briand, Clay Williams, 2005-11-03 This volume contains the final versions of the technical papers presented at MoDELS 2005 in Montego Bay Jamaica October 2 7 2005

**On the Move to Meaningful Internet Systems 2004: OTM 2004 Workshops** Zahir Tari, Angelo Corsaro, 2004-10-14 A special mention for 2004 is in order for the new Doctoral Symposium Workshop where three young postdoc researchers organized an original setup and formula to bring PhD students together and allow them to submit their research proposals for selection A limited number of the submissions and their approaches were independently evaluated by a panel of senior experts at the conference and presented by the students in front of a wider audience These students also got free access to all other parts of the OTM program and only paid a heavily discounted fee for the Doctoral Symposium itself In fact their attendance was largely sponsored by the other participants If evaluated as successful it is the intention of the General Chairs to expand this model in future editions of the OTM conferences and so draw in an audience of young researchers to the

OnTheMove forum All three main conferences and the associated workshops share the distributed aspects of modern computing systems and the resulting applications created by the Internet and the so called Semantic Web For DOA 2004 the primary emphasis stayed on the distributed object infrastructure for ODBASE 2004 it was the knowledge bases and methods required for enabling the use of formal semantics and for CoopIS 2004 the main topic was the interaction of such technologies and methods with management issues such as occurs in networked organizations These subject areas naturally overlap and many submissions in fact also treat envisaged mutual impacts among them

*Databases and Information Systems VI* Marite

Kirikova, 2011 Selected Papers from the Ninth International This volume presents papers from the Ninth International Baltic Conference on Databases and Information Systems Baltic DBIS 2010 which took place in Riga Latvia in July 2010 Since this successful biennial series began in 1994 the Baltic DBIS confer

### **Leveraging Knowledge for Innovation in**

**Collaborative Networks** Luis M. Camarinha-Matos, Iraklis Paraskakis, Hamideh Afsarmanesh, 2009-10-13 Collaborative

Networks A Tool for Promoting Co creation and Innovation The collaborative networks paradigm offers powerful socio organizational mechanisms supported by advanced information and communication technologies for promoting innovation This in turn leads to new products and services growth of better customer relationships establishing better project and process management and building higher performing consortia By putting diverse entities that bring different perspectives competencies practices and cultures to work together collaborative networks develop the right environment for the emergence of new ideas and more efficient yet practical solutions This aspect is particularly important for small and medium enterprises which typically lack critical mass and can greatly benefit from participation in co innovation networks However larger organizations also benefit from the challenges and the diversity found in collaborative ecosystems In terms of research in addition to the trend identified in previous years toward a sounder consolidation of the theoretical foundation in this discipline there is now a direction of developments more focused on modeling and reasoning about new collaboration patterns and their contribution to value creation Soft issues including social capital cultural aspects ethics and value systems trust emotions behavior etc continue to deserve particular attention in terms of modeling and reasoning Exploitation of new application domains such as health care education and active aging for retired professionals also help identify new research challenges both in terms of modeling and ICT support development

### **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

**The British National Bibliography** Arthur James Wells, 2005 **American Book Publishing Record**, 2005 **Proceedings of the Joint 10th European Software Engineering Conference (ESEC) and the 13th ACM SIGSOFT Symposium on**

**the Foundations of Software Engineering (FSE-13)** Harald Gall,2005      *Modelling Foundations and Applications* Jordi Cabot,Julia Rubin,2014-07-10 This book constitutes the proceedings of the 10th European Conference on Modelling Foundations and Applications ECMFA 2014 held as part of STAF 2014 in York UK in July 2014 The 14 foundation track papers and the 3 applications track papers presented in this volume were carefully reviewed and selected from 58 submissions They are on all aspects of MDE including topics such as model provenance model transformations and code generation model synthesis model driven testing formal modeling approaches business modeling and usability of models

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