

MDA DISTILLED

PRINCIPLES OF MODEL-DRIVEN ARCHITECTURE

STEPHEN J. MELLOR KENDALL SCOTT AXEL UHL DIRK WEISE

Foreword by Dr. Richard Mark Soley Chairman and Chief Executive Officer, OMG





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Raffaela Di Napoli

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MDA Distilled Stephen J. Mellor, 2004 A readable and much needed introduction to MDA Dr Jim Arlow coauthor of UML and the Unified Process Addison Wesley 2002 and Enterprise Patterns and MDA Addison Wesley 2004 This book provides an excellent introduction to the ideas and technologies that will form the foundation of the model driven architecture over the coming years I recommend it wholeheartedly Dr Andy Evans Managing Director Xactium Limited UK Excellent job of distilling MDA down to its core concepts Krzysztof Czarnecki Univeristy of Waterloo coauthor of Generative Programming Addison Wesley 2000 As systems have grown more crucial to the operations of organizations worldwide so too have the costs associated with building and maintaining them Enter model driven architecture MDA a standard framework from the Object Management Group OMG that allows developers to link object models together to build complete systems MDA prevents design decisions from being intertwined with the application and keeps it independent of its implementation. The result is an application that can be combined with other technologies as well as other applications and models that become highly reusable assets MDA Distilled is an accessible introduction to the MDA standard and its tools and technologies The book describes the fundamental features of MDA how they fit together and how you can use them in your organization today You will also learn how to define a model driven process for a project involving multiple platforms implement that process and then test the resulting system MDA Distilled will help you understand The MDA framework including the platform independent model PIM and the platform specific model PSM The Meta Object Facility MOF the OMG s adopted standard for metamodeling Horizontal vertical and merging mappings between models Building marks and marking models Elaborating models including viewing generated models and managing manual changes Building executable models with Executable UML Agile MDA development Developers and architects can dramatically improve productivity portability interoperability and maintenance with MDA Find out how with this essential reference and quickly learn how to harness the significant power of this new framework Mda Distilled Stephen J. Mellor, 2004 **Essential Software Architecture** Ian Gorton, 2011-04-27 Job titles like Technical Architect and Chief Architect nowadays abound in software industry yet many people suspect that architecture is one of the most overused and least understood terms in professional software development Gorton s book tries to resolve this dilemma It concisely describes the essential elements of knowledge and key skills required to be a software architect The explanations encompass the essentials of architecture thinking practices and supporting technologies They range from a general understanding of structure and quality attributes through technical issues like middleware components and service oriented architectures to recent technologies like model driven architecture software product lines aspect oriented design and the Semantic Web which will presumably influence future software systems This second edition contains new material covering enterprise architecture agile development enterprise service bus technologies RESTful Web services and a case study on how to use the MeDICi integration framework All approaches are illustrated by an ongoing real

world example So if you work as an architect or senior designer or want to someday or if you are a student in software engineering here is a valuable and yet approachable knowledge source for you **Domain-Specific Languages** Andrzej Wasowski, Thorsten Berger, 2023-02-01 This textbook describes the theory and the pragmatics of using and engineering high level software languages also known as modeling or domain specific languages DSLs for creating quality software This includes methods design patterns guidelines and testing practices for defining the syntax and the semantics of languages While remaining close to technology the book covers multiple paradigms and solutions avoiding a particular technological silo It unifies the modeling the object oriented and the functional programming perspectives on DSLs The book has 13 chapters Chapters 1 and 2 introduce and motivate DSLs Chapter 3 kicks off the DSL engineering lifecycle describing how to systematically develop abstract syntax by analyzing a domain Chapter 4 addresses the concrete syntax including the systematic engineering of context free grammars Chapters 5 and 6 cover the static semantics with basic constraints as a starting point and type systems for advanced DSLs Chapters 7 Transformation 8 Interpretation and 9 Generation describe different paradigms for designing and implementing the dynamic semantics while covering testing and other kinds of quality assurance Chapter 10 is devoted to internal DSLs Chapters 11 to 13 show the application of DSLs and engage with simpler alternatives to DSLs in a highly distinguished domain software variability These chapters introduce the underlying notions of software product lines and feature modeling The book has been developed based on courses on model driven software engineering MDSE and DSLs held by the authors It aims at senior undergraduate and junior graduate students in computer science or software engineering Since it includes examples and lessons from industrial and open source projects as well as from industrial research practitioners will also find it a useful reference The numerous examples include code in Scala 3 ATL Alloy C F Groovy Java JavaScript Kotlin OCL Python QVT Ruby and Xtend The book contains as many as 277 exercises The associated code repository facilitates learning and using the examples in a course **New Trends in Software** Methodologies, Tools and Techniques Hamido Fujita, Roberto Revetria, 2012 Software is the essential enabling means for science and the new economy It helps us to create a more reliable flexible and robust society But software often falls short of our expectations Current methodologies tools and techniques remain expensive and are not yet sufficiently reliable while many promising approaches have proved to be no more than case by case oriented methods This book contains extensively reviewed papers from the eleventh International Conference on New Trends in software Methodology Tools and Techniques SoMeT 12 held in Genoa Italy in September 2012 The conference provides an opportunity for scholars from the international research community to discuss and share research experiences of new software methodologies and techniques and the contributions presented here address issues ranging from research practices and techniques and methodologies to proposing and reporting solutions for global world business The emphasis has been on human centric software methodologies end user development techniques and emotional reasoning for an optimally harmonized performance between the design tool and the

user Topics covered include the handling of cognitive issues in software development to adapt it to the user's mental state and intelligent software design in software utilizing new aspects on conceptual ontology and semantics reflected on knowledge base system models This book provides an opportunity for the software science community to show where we are today and where the future may take us Evaluation of Novel Approaches to Software Engineering Leszek A.

Maciaszek, Kang Zhang, 2013-01-03 This book contains a collection of thoroughly refereed papers presented at the 6th International Conference on Evaluation of Novel Approaches to Software Engineering ENASE 2011 held in Beijing China in June 2011 The 18 revised and extended full papers presented together with 10 revised short papers were carefully reviewed and selected from 75 initial submissions The papers cover a wide range of topics such as software quality and testing requirements engineering programming software processes and methods software tools and environments business process and services modeling software components software effort and processes and socio technical aspects of software development

Contemporary Issues in Database Design and Information Systems Development Siau,

Keng, 2007-04-30 This book presents the latest research ideas and topics on databases and software development It provides a representation of top notch research in all areas of database and information systems development Provided by publisher

Application Development and Design: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2017-08-11 Advancements in technology have allowed for the creation of new tools and innovations that can improve different aspects of life These applications can be utilized across different technological platforms Application Development and Design Concepts Methodologies Tools and Applications is a comprehensive reference source for the latest scholarly material on trends techniques and uses of various technology applications and examines the benefits and challenges of these computational developments Highlighting a range of pertinent topics such as software design mobile applications and web applications this multi volume book is ideally designed for researchers academics engineers professionals students and practitioners interested in emerging technology applications Trends in Enterprise Application Architecture Dirk Draheim, Gerald Weber, 2007-10-13 This book constitutes the thoroughly refereed postproceedings of the 2nd International Conference on Trends in Enterprise Application Architecture TEAA 2006 It identifies issues in enterprise application architecture and proposes as well as evaluates a solution Topics of interest include model driven architecture enterprise development environments service oriented architecture data integration enterprise grid computing load balancing and enterprise component platforms Satellite Events at the MoDELS 2005 Conference Jean-Michel Bruel, 2006-01-20 The 30 revised full papers were carefully selected for inclusion in the book and are presented along with an educators s and a doctorial symposium section comprising additional 13 short articles The papers are organized in topical sections representing the various workshops Innovations for Requirement Analysis. From Stakeholders' Needs to Formal Designs Barbara Paech, Craig Martell, 2008-11-27

Wearepleasedtopresenttheproceedingsofthe14thMontereyWorkshop which tookplaceSeptember10 13 2007inMonterey CA USA Inthispreface we give the reader an overview of what took place at the workshop and introduce the contributions in this Lecture Notes in Computer Science volume A complete introduction to the theme of the workshop as well as to the history of the Monterey Workshop series can be found in Luqi and Kordon's Advances in Requirements Engineering Bridging the Gap between Stakeholders Needs and Formal Designs in this volume This paper also contains the case study that many participants used as a problem to frame their analyses and a summary of the workshop's results. The workshop consisted of three keynote talks three panels presentations of peer reviewed papers as well as presentations of various position papers by the participants The keynote speakers at this year's workshop were Daniel Berry Aravind Joshi and Lori Clarke Each of their talks was used to set the tone for the p sentations and discussions for that particular day Daniel Berry presented an overview of the needs and challenges of natural language processing in requi ments engineering with a special focus on ambiguity in his talk Ambiguity in Natural Language Requirements Aravind Joshi provided an overview of current natural language processing research in discourse analysis in the talk Some Recent Developments in Natural Language Processing Finally Lori Clarke showed how to combine formal requirements speci cation with natural language processing to cope with the complex domain of medical information processes in Getting the Details Right **Balancing Agility and Formalism in Software Engineering** Bertrand Meyer, J.R. Nawrocki, 2008-08-13 This book constitutes the thoroughly refereed post conference proceedings of the Second IFIP TC 2 Central and East Conference on Software Engineering Techniques CEE SET 2007 held in Poznan Poland in October 2007 The 21 revised full papers presented together with 2 keynote addresses were carefully reviewed and selected from 73 initial submissions. The papers are organized in topical sections on measurement processes UML experiments tools and change Model-Driven Architecture - Foundations and Applications Jos Warmer, Arend Rensink, 2006-06-29 Integration Applications of transformations Applications of MDA Process Model consistency Model management Transformation 1 Ontologies Reengineering Tools and profiles Tool generation Constraints Model management and transformations Transformation 2 Management of the Object-oriented Development Process Liping Liu, Boris Roussey, 2006-01-01 This book consists of a series of high level discussions on technical and managerial issues related to object oriented development Provided by publisher 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

metamodelling model transformation and model synchronization and consistency Information Systems Reengineering for Modern Business Systems: ERP, Supply Chain and E-Commerce Management Solutions Valverde, Raul, Rao Talla, Malleswara, 2012-02-29 Businesses must constantly adapt to a dynamically changing environment that requires choosing an adaptive and dynamic information architecture that has the flexibility to support both changes in the business environment and changes in technology In general information systems reengineering has the objective of extracting the contents data structures and flow of data and process contained within existing legacy systems in order to reconstitute them into a new form for subsequent implementation Information Systems Reengineering for Modern Business Systems ERP Supply Chain and E Commerce Management Solutions covers different techniques that could be used in industry in order to reengineer business processes and legacy systems into more flexible systems capable of supporting modern trends such as Enterprise Resource Planning ERP supply chain management systems and e commerce This reference book also covers other issues related to the reengineering of legacy systems which include risk management and obsolescence management of Software Engineering of Fault Tolerant Systems P. Pelliccione, 2007 In architecting dependable requirements systems what is required to improve the overall system robustness is fault tolerance Many methods have been proposed to this end the solutions are usually considered late during the design and implementation phases of the software life cycle e.g. Java and Windows NT exception handling thus reducing the effectiveness error and fault handling Since the system design typically models only normal behaviour of the system while ignoring exceptional ones the implementation of the system is unable to handle abnormal events Consequently the system may fail in unexpected ways due to faults It has been argued that fault tolerance management during the entire life cycle improves the overall system robustness and that different classes of threats need to be identified for and dealt with at each distinct phase of software development depending on the abstraction level of the software system being modelled This book builds on this trend and investigates how fault tolerance mechanisms can be applied when engineering a software system In particular it identifies the new problems arising in this area introduces the new models to be applied at different abstraction levels defines methodologies for model driven engineering of such systems and outlines the new technologies and validation and verification environments supporting this Designing Software-Intensive Systems: Methods and Principles Tiako, Pierre F., 2008-07-31 This book addresses the complex issues associated with software engineering environment capabilities for designing real time embedded software systems Provided by publisher Model Driven Engineering Languages and Systems Jon Whittle, Tony Clark, Thomas Kühne, 2011-10-12 This book constitutes the refereed proceedings of the 14th International Conference on Model Driven Engineering Languages and Systems MODELS 2011 held in Wellington New Zealand in October 2011 The papers address a wide range of topics in research foundations track and practice applications track For the first time a new category of research papers vision papers are included presenting outside the box thinking The foundations track received 167 full paper submissions of which 34 were

selected for presentation Out of these 3 papers were vision papers The application track received 27 submissions of which 13 papers were selected for presentation The papers are organized in topical sections on model transformation model complexity aspect oriented modeling analysis and comprehension of models domain specific modeling models for embedded systems model synchronization model based resource management analysis of class diagrams verification and validation refactoring models modeling visions logics and modeling development methods and model integration and collaboration

Enterprise Information Systems Joaquim Filipe, Michał Śmiałek, Alexander Brodsky, Slimane Hammoudi, 2021-04-30 This book constitutes extended revised and selected papers from the 22nd International Conference on Enterprise Information Systems ICEIS 2020 held online during May 5 7 2020 The 41 papers presented in this volume were carefully reviewed and selected for inclusion in this book from a total of 255 submissions They were organized in topical sections as follows database and information systems integration artificial intelligence and decision support systems information systems analysis and specification software agents and internet computing human computer interaction and enterprise architecture

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