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DEVELOPING WITH PDF

DIVE INTO THE PORTABLE DOCUMENT FORMAT

"O'Reilly Media, Inc." PDF is becoming the standard for digital documents worldwide, but it's not easy to learn on your own. With capabilities that let you use a variety of images and text, embed audio and video, and provide links and navigation, there's a lot to explore. This practical guide helps you understand how to work with PDF to construct your own documents, troubleshoot problems, and even build your own tools. You'll also find best practices for producing, manipulating, and consuming PDF documents. In addition, this highly approachable reference will help you navigate the official (and complex) ISO documentation. Learn how to combine PDF objects into a cohesive whole Use PDF's imaging model to create vector and raster graphics Integrate text, and become familiar with fonts and glyphs Provide navigation within and between documents Use annotations to overlay or incorporate additional content Build interactive forms with the Widget annotation Embed related files such as multimedia, 3D content, and XML files Use optional content to enable non-printing graphics Tag content with HTML-like structures, including paragraphs and tables

OBJECTS, COMPONENTS, MODELS AND PATTERNS

47TH INTERNATIONAL CONFERENCE, TOOLS EUROPE 2009, ZURICH, SWITZERLAND, JUNE 29-JULY 3, 2009, PROCEEDINGS

Springer Science & Business Media This book constitutes the thoroughly refereed proceedings of the 47th International Conference on Objects, Components, Models

and Patterns, TOOLS EUROPE 2009, held in Zurich, Switzerland, in June/July 2009. TOOLS has played a major role in the spread of object-oriented and component technologies. It has now broadened its scope beyond the original topics of object technology and component-based development to encompass all modern, practical approaches to software development. At the same time, TOOLS has kept its traditional spirit of technical excellence, its acclaimed focus on practicality, its well-proven combination of theory and applications, and its reliance on the best experts from academia and industry. The 17 regular papers and two short papers presented in this book, together with two invited papers, were carefully reviewed and selected from 67 submissions. The topics covered in this volume are reflection and aspects, models, theory, components, monitoring, and systems generation.

PYOMO - OPTIMIZATION MODELING IN PYTHON

Springer Science & Business Media This book provides a complete and comprehensive reference/guide to Pyomo (Python Optimization Modeling Objects) for both beginning and advanced modelers, including students at the undergraduate and graduate levels, academic researchers, and practitioners. The text illustrates the breadth of the modeling and analysis capabilities that are supported by the software and support of complex real-world applications. Pyomo is an open source software package for formulating and solving large-scale optimization and operations research problems. The text begins with a tutorial on simple linear and integer programming models. A detailed reference of Pyomo's modeling components is illustrated with extensive examples, including a discussion of how to load data from data sources like spreadsheets and databases. Chapters describing advanced modeling capabilities for nonlinear and stochastic optimization are also included. The Pyomo software provides familiar modeling features within Python, a powerful dynamic programming language that has a very clear, readable syntax and intuitive object orientation. Pyomo includes Python classes for defining sparse sets, parameters, and variables, which can be used to formulate algebraic expressions that define objectives and constraints. Moreover, Pyomo can be used from a command-line interface and within Python's interactive command environment, which makes it easy to create Pyomo models, apply a variety of optimizers, and examine solutions. The software supports a different modeling approach than commercial AML (Algebraic Modeling Languages) tools, and is designed for flexibility, extensibility, portability, and maintainability but also maintains the central ideas in modern AMLs.

CONCEPTUAL MODELING - ER 2004

23RD INTERNATIONAL CONFERENCE ON CONCEPTUAL MODELING, SHANGHAI, CHINA, NOVEMBER 8-12, 2004. PROCEEDINGS

Springer On behalf of the Organizing Committee, we would like to welcome you to the proceedings of the 23rd International Conference on Conceptual Modeling (ER 2004). This conference provided an international forum for technical discussion on conceptual modeling of information systems among researchers, developers and

users. This was the third time that this conference was held in Asia; the first time was in Singapore in 1998 and the second time was in Yokohama, Japan in 2001. China is the third largest nation with the largest population in the world. Shanghai, the largest city in China and a great metropolis, famous in Asia and throughout the world, is therefore a most appropriate location to host this conference. This volume contains papers selected for presentation and includes the two keynote talks by Prof. Hector Garcia-Molina and Prof. Gerhard Weikum, and an invited talk by Dr. Xiao Ji. This volume also contains industrial papers and demo/poster papers. An additional volume contains papers from 6 workshops. The conference also featured three tutorials: (1) Web Change Management and Delta Mining: Opportunities and Solutions, by Sanjay Madria, (2) A Survey of Data Quality Issues in Cooperative Information Systems, by Carlo Batini, and (3) Visual SQL - An ER-Based Introduction to Database Programming, by Bernhard Thalheim.

MODEL RULES OF PROFESSIONAL CONDUCT

American Bar Association The Model Rules of Professional Conduct provides an up-to-date resource for information on legal ethics. Federal, state and local courts in all jurisdictions look to the Rules for guidance in solving lawyer malpractice cases, disciplinary actions, disqualification issues, sanctions questions and much more. In this volume, black-letter Rules of Professional Conduct are followed by numbered Comments that explain each Rule's purpose and provide suggestions for its practical application. The Rules will help you identify proper conduct in a variety of given situations, review those instances where discretionary action is possible, and define the nature of the relationship between you and your clients, colleagues and the courts.

THE DEVELOPMENT OF COMPONENT-BASED INFORMATION SYSTEMS

Routledge This work provides a comprehensive overview of research and practical issues relating to component-based development information systems (CBIS). Spanning the organizational, developmental, and technical aspects of the subject, the original research included here provides fresh insights into successful CBIS technology and application. Part I covers component-based development methodologies and system architectures. Part II analyzes different aspects of managing component-based development. Part III investigates component-based development versus commercial off-the-shelf products (COTS), including the selection and trading of COTS products.

MANAGING IT IN CONSTRUCTION/MANAGING CONSTRUCTION FOR TOMORROW

CRC Press Managing IT in Construction/Managing Construction for Tomorrow presents new developments in:- Managing IT strategies - Model based management tools including building information modeling- Information and knowledge management- Communication and collaboration - Data acquisition and storage- Visualization and simulation- Architectural design and

COMPONENT-BASED SOFTWARE DEVELOPMENT

CASE STUDIES

World Scientific Component-based software development (CBD) is an emerging discipline that promises to take software engineering into a new era. Building on the achievements of object-oriented software construction, CBD aims to deliver software engineering from a cottage industry into an industrial age for Information Technology, wherein software can be assembled from components, in the manner that hardware systems are currently constructed from kits of parts. This volume provides a survey of the current state of CBD, as reflected by activities that have been taking place recently under the banner of CBD, with a view to giving pointers to future trends. The contributions report case studies - self-contained, fixed-term investigations with a finite set of clearly defined objectives and measurable outcomes - on a sample of the myriad aspects of CBD. The book includes chapters dealing with COTS (commercial off-the-shelf) components; methodologies for CBD; compositionality, i.e. how to calculate or predict properties of a composite from those of its constituents; component software testing; and grid computing.

FORMAL METHODS FOR MODEL-DRIVEN ENGINEERING

12TH INTERNATIONAL SCHOOL ON FORMAL METHODS FOR THE DESIGN OF COMPUTER, COMMUNICATION AND SOFTWARE SYSTEMS, SFM 2012, BERTINORO, ITALY, JUNE 18-23, 2012. ADVANCED LECTURES

Springer This book presents 11 tutorial lectures by leading researchers given at the 12th edition of the International School on Formal Methods for the Design of Computer, Communication and Software Systems, SFM 2012, held in Bertinoro, Italy, in June 2012. SFM 2012 was devoted to model-driven engineering and covered several topics including modeling languages; model transformations, functional and performance modeling and analysis; and model evolution management.

MODEL DRIVEN ARCHITECTURE

EUROPEAN MDA WORKSHOPS: FOUNDATIONS AND APPLICATIONS, MDAFA 2003 AND MDAFA 2004, TWENTE, THE NETHERLANDS, JUNE 26-27, 2003, AND LINKÖPING, SWEDEN, JUNE 10-11, 2004, REVISED SELECTED PAPERS

Springer Science & Business Media 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 re-submit their papers to a post-workshop reviewing process; 15 of these papers were accepted to appear in this volume on MDA.

PERFORMANCE EVALUATION OF DATA BASE SYSTEMS

PDF EXPLAINED

THE ISO STANDARD FOR DOCUMENT EXCHANGE

"O'Reilly Media, Inc." At last, here's an approachable introduction to the widely used Portable Document Format. PDFs are everywhere, both online and in printed form, but few people take advantage of the useful features or grasp the nuances of this format. This concise book provides a hands-on tour of the world's leading page-description language for programmers, power users, and professionals in the search, electronic publishing, and printing industries. Illustrated with lots of examples, this book is the documentation you need to fully understand PDF. Build a simple PDF file from scratch in a text editor Learn the layout and content of a PDF file, as well as the syntax of its objects Examine the logical structure of PDF objects, and learn how pages and their resources are arranged into a document Create vector graphics and raster images in PDF, and deal with transparency, color spaces, and patterns Explore PDF operators for building and showing text strings Get up to speed on bookmarks, metadata, hyperlinks, annotations, and file attachments Learn how encryption and document permissions work in PDF Use the pdftk program to process PDF files from the command line

OBJECTS, COMPONENTS, AND FRAMEWORKS WITH UML

THE CATALYSIS APPROACH

Addison-Wesley Professional Using the Catalysis approach, Objects, Components, and Frameworks with UML details the recurring patterns within UML. Catalysis is a rapidly emerging UML-based method for component and framework-based development with objects, and it is gaining popularity because it allows developers to more easily build business models, requirement specs, designs, and code. The authors describe a unique UML-based approach to precise specification of component interfaces using a type model. By identifying patterns in this notational language, the authors provide application developers and system architects with well-defined and reusable techniques that help them build open distributed object systems from components and frameworks. Expected Availability: September 1998

ENCYCLOPEDIA OF DATABASE TECHNOLOGIES AND APPLICATIONS

IGI Global "Addresses the evolution of database management, technologies and applications along with the progress and endeavors of new research areas."--P. xiii.

FUTURE OF SOFTWARE ENGINEERING 2007

FOSE 2007 : 23-25 MAY 2007, MINNEAPOLIS, MINNESOTA

IEEE Sponsored by IEEE Computer Society Technical Council on Software Engineering, The ACM Special Interest Group on Software Engineering (SIGSOFT)

AGENT-ORIENTED SOFTWARE ENGINEERING VII

7TH INTERNATIONAL WORKSHOP, AOSE 2006, HAKODATE, JAPAN, MAY 8, 2006, REVISED AND INVITED PAPERS

Springer This book constitutes the thoroughly refereed post-proceedings of the 7th International Workshop on Agent-Oriented Software Engineering, AOSE 2006, held in Hakodate, Japan, in May 2006 as part of AAMAS 2006. The 13 revised full papers are organized in topical sections on modeling and design of agent systems, modeling open agent systems, formal reasoning about designs, as well as testing, debugging and evolvability.

CISSP STUDY GUIDE

Newnes Annotation This study guide is aligned to cover all of the material included in the CISSP certification exam. Each of the 10 domains has its own chapter that includes specially designed pedagogy to aid the test-taker in passing the exam.

ENTERPRISE INTEROPERABILITY

NEW CHALLENGES AND APPROACHES

Springer Science & Business Media Composed of over 50 papers, "Enterprise Interoperability" ranges from academic research through case studies to industrial and administrative experience of interoperability. The international nature of the authorship continues to broaden. Many of the papers have examples and illustrations calculated to deepen understanding and generate new ideas. This is a concise reference to the state-of-the-art in software interoperability.

OBJECTS, AGENTS, AND FEATURES

INTERNATIONAL SEMINAR, DAGSTUHL CASTLE, GERMANY, FEBRUARY 16-21, 2003, REVISED AND INVITED PAPERS

Springer In recent years, concepts in object-oriented modeling and programming have been extended in several directions, giving rise to new paradigms such as age-orientation and feature-orientation. This volume came out of a Dagstuhl seminar exploring the relationship - tween the original paradigm and the two new ones. Following the success of the seminar, the idea emerged to edit a volume with

contributions from participants - including those who were invited but could not come. The participants' reaction was very positive, and so we, the organizers of the seminar, felt - encouraged to edit this volume. All submissions were properly refereed, resulting in the present selection of high-quality papers in between the topics of objects, agents and features. The editors got help from a number of additional reviewers, viz. Peter Ahlbrecht, Daniel Amyot, Lynne Blair, Jan Broersen, Mehdi Dastani, Virginia Dignum, Dimitar Guelev, Benjamin Hirsch, Maik Kollmann, Alice Miller, Stephan Reij-Marganec, Javier Vazquez-Salceda, and Gerard Vreeswijk. Finally, we would like to take this opportunity to thank all the persons - involved in the realization of this seminar and this book: attendees, authors, reviewers, and, last but not least, the staff from Schloss Dagstuhl and Springer-Verlag. February 2004

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SOFTWARE APPLICATIONS: CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS

IGI Global Includes articles in topic areas such as autonomic computing, operating system architectures, and open source software technologies and applications.

WEB PUBLISHING WITH ADOBE/ACROBAT/PDF

Springer This book explains all that's needed to combine the structural advantages of HTML with the comprehensive layout possibilities of PDF. It presents many of the tricks for the dynamic generation of PDF data, as well as information on integrating Acrobat into CGI, JavaScript, VBScript, and Active Server Pages. The CD includes useful software tools and the Acrobat Reader.

DOCUMENT ANALYSIS SYSTEMS VI

6TH INTERNATIONAL WORKSHOP, DAS 2004, FLORENCE, ITALY, SEPTEMBER 8-10, 2004, PROCEEDINGS

Springer Science & Business Media

This volume contains papers selected for presentation at the 6th IAPR Workshop on Document Analysis Systems (DAS 2004) held during September 8-10, 2004 at the University of Florence, Italy. Several papers represent the state of the art in a broad range of "traditional" topics such as layout analysis, applications to graphics recognition, and handwritten documents. Other contributions address the description of complete working systems, which is one of the strengths of this workshop. Some papers extend the application domains to other media, like the processing of

Internet documents. The peculiarity of this 6th workshop was the large number of papers related to digital libraries and to the processing of historical documents, a task which frequently requires the analysis of color documents. A total of 17 papers are associated with these topics, whereas two years ago (in DAS 2002) only a couple of papers dealt with these problems. In our view there are three main reasons for this new wave in the DAS community. From the scientific point of view, several research fields reached a thorough knowledge of techniques and problems that can be effectively solved, and this expertise can now be applied to new domains. Another incentive has been provided by several research projects funded by the EC and the NSF on topics related to digital libraries.

WEB SERVICES - ICWS-EUROPE 2003

INTERNATIONAL CONFERENCE ICWS-EUROPE 2003, ERFURT, GERMANY, SEPTEMBER 23-24, 2003, PROCEEDINGS

Springer After some time of early experience Web Services are moving themselves from a new highly fragmented technology to a piece of nowadays infrastructures which promise to address various current challenges. These include especially classical issues of integration and data in a heterogeneous environment. The Web Service technology provides an open and technology-agnostic interface, and furthermore propels new usage paradigms in distributed computing infrastructures like Grid Services. Successful adoption of Web Service technology relies on the definition of interoperable architectural building blocks which can be integrated in existing software architectures, like J2EE or CORBA heritage. Interoperability will surely prove itself as the critical success factor of the Web Service proliferation. In order to accomplish these interoperability various standardization bodies such as the W3C, UN or OASIS founded activities to create specifications and products implementing these building blocks. As the sister event of the First International Conference on Web Services (ICWS 2003), which was held in Las Vegas, June 23 - 26, USA, has proven to be an excellent catalyst for research and collaboration, the 2003 International Conference on Web Services - Europe (ICWS-Europe 2003) is expected to continue this trend. The topics of papers collected in this proceedings volume ranges from issues like modeling, development, deployment, publishing, as well as discovery, composition and collaboration, plus monitoring and analytical control. Additional contributions summarize some research and development challenges of building Web Service solutions. Especially, some contributions present an emerging research direction, namely, Web Services collaboration. Moreover, some major research activities associated with facilitating extended business collaboration using Web services and semantic annotation are also covered.

FORMAL METHODS FOR COMPONENTS AND OBJECTS

9TH INTERNATIONAL SYMPOSIUM, FMCO 2010, GRAZ, AUSTRIA, NOVEMBER 29 - DECEMBER 1, 2010

Springer The focus in development methodologies of large and complex software systems has switched in the last two decades from functional issues to structural

issues; this holds for both the object-oriented and the more recent component-based software engineering paradigms. Formal methods have been applied successfully to the verification of medium-sized programs in protocol and hardware design for quite a long time. However, their application to the development of large systems requires more emphasis on specification, modeling and validation techniques supporting the concepts of reusability and modifiability, and their implementation in new extensions of existing programming languages like Java. This state-of-the-art survey presents the outcome of the 9th Symposium on Formal Methods for Components and Objects, held in Graz, Austria, in November/December 2010. The volume contains 20 revised contributions submitted after the symposium by speakers from each of the following European IST projects: the FP7-IST project AVANTSSAR on automated validation of trust and security of service-oriented architectures; the FP7-IST project DEPLOY on industrial deployment of advanced system engineering methods for high productivity and dependability; the ESF-COST Action IC0701 on formal verification of object-oriented software; the FP7-IST project HATS on highly adaptable and trustworthy software using formal models; the FP7-SST project INESS on an integrated European railway signalling system; the FP7-IST project MADES on a model-driven approach to improve the current practice in the development of embedded systems; the FP7-IST project MOGENTES on model-based generation of tests for dependable embedded systems; as well as the FP7-IST project MULTIFORM on integrated multi-formalism tool support for the design of networked embedded control systems.

PYOMO – OPTIMIZATION MODELING IN PYTHON

Springer This book provides a complete and comprehensive guide to Pyomo (Python Optimization Modeling Objects) for beginning and advanced modelers, including students at the undergraduate and graduate levels, academic researchers, and practitioners. Using many examples to illustrate the different techniques useful for formulating models, this text beautifully elucidates the breadth of modeling capabilities that are supported by Pyomo and its handling of complex real-world applications. This second edition provides an expanded presentation of Pyomo's modeling capabilities, providing a broader description of the software that will enable the user to develop and optimize models. Introductory chapters have been revised to extend tutorials; chapters that discuss advanced features now include the new functionalities added to Pyomo since the first edition including generalized disjunctive programming, mathematical programming with equilibrium constraints, and bilevel programming. Pyomo is an open source software package for formulating and solving large-scale optimization problems. The software extends the modeling approach supported by modern AML (Algebraic Modeling Language) tools. Pyomo is a flexible, extensible, and portable AML that is embedded in Python, a full-featured scripting language. Python is a powerful and dynamic programming language that has a very clear, readable syntax and intuitive object orientation. Pyomo includes Python classes for defining sparse sets, parameters, and variables, which can be used to formulate algebraic expressions that define objectives and constraints. Moreover, Pyomo can be used from a command-line interface and within Python's interactive command environment, which makes it easy to create Pyomo models.

apply a variety of optimizers, and examine solutions.

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"O'Reilly Media, Inc." Explains the features, components, and applications of PDF documents; demonstrates through text and examples how to create a document; and describes the format's history and software options.

PAPERLESS

REAL-WORLD SOLUTIONS WITH ADOBE TECHNOLOGY

Adobe Press Streamline your organization by replacing paper documents with electronic solutions Paperless is one part inspiration and two parts instruction. You will be inspired by real-world case studies as you meet people who have brought paperless change to their organizations. You will learn what worked and how you can apply these experiences to your own work. Meet lawyers, doctors, and business leaders who have transformed their operations with Adobe technology. Also, learn how city, state, and federal governments are saving money and providing better services with paperless solutions. The inspiration is just the beginning. The majority of this book is instruction on Adobe's most important paperless technologies. Each section is full of hands-on demos that will show you how to get real business value from products you may already own. You will learn how to create and use digital signatures, certify PDFs, and integrate dynamic documents with your existing systems. This book explains all you need to know to be on your way to a paperless future. • Read the stories of those who have created today's leading-edge paperless solutions. • Learn how the Federal Government uses certified PDFs and how New York State uses e-Forms to save millions of dollars. • Find out how the Kane County court system takes advantage of PDF forms to protect abuse victims. • See how one doctor is reducing Medicare costs by replacing expensive emergency room visits with paperless house calls. • Follow in-depth lessons on Acrobat®, LiveCycle® Designer, LiveCycle® ES/ES2, and InDesign® Server. • Download demos, source code, and sample files to use with the book's exercises (www.paperlessbook.info). "Using real-world examples, such as the ones in J.P. Terry's Paperless, to illustrate how PDF can be used to move from paper to electronic processes is a simple-to-understand, yet very powerful learning tool for business and government alike." — Lori DeFurio, Group Product Manager, Acrobat, Adobe Systems "In Paperless, J.P. Terry weaves the business case and technical implementation into a complete story on how a variety of businesses have benefited from Adobe solutions. This book is an enjoyable read and a must-have reference for automating business processes." — Jeff Stanier, Senior Product Manager, Adobe LiveCycle

MSDN MAGAZINE

THE INDUSTRIAL INFORMATION TECHNOLOGY HANDBOOK

CRC Press The Industrial Information Technology Handbook focuses on existing and emerging industrial applications of IT, and on evolving trends that are driven by the needs of companies and by industry-led consortia and organizations. Emphasizing

fast growing areas that have major impacts on industrial automation and enterprise integration, the Handbook covers topics such as industrial communication technology, sensors, and embedded systems. The book is organized into two parts. Part 1 presents material covering new and quickly evolving aspects of IT. Part 2 introduces cutting-edge areas of industrial IT. The Handbook presents material in the form of tutorials, surveys, and technology overviews, combining fundamentals and advanced issues, with articles grouped into sections for a cohesive and comprehensive presentation. The text contains 112 contributed reports by industry experts from government, companies at the forefront of development, and some of the most renowned academic and research institutions worldwide. Several of the reports on recent developments, actual deployments, and trends cover subject matter presented to the public for the first time.

ITEXT IN ACTION

CREATING AND MANIPULATING PDF

Manning Publications Company Developers looking to enhance Web and other applications with dynamic PDF document generation and/or manipulation will find this book unique in content and readability.

COMPUTATIONAL SCIENCE - ICCS 2003. PART 4.

INTERNATIONAL CONFERENCE MELBOURNE, AUSTRALIA AND ST. PETERSBURG, RUSSIA, JUNE 2-4, 2003, PROCEEDINGS,

Springer Science & Business Media The four-volume set LNCS 2657, LNCS 2658, LNCS 2659, and LNCS 2660 constitutes the refereed proceedings of the Third International Conference on Computational Science, ICCS 2003, held concurrently in Melbourne, Australia and in St. Petersburg, Russia in June 2003. The four volumes present more than 460 reviewed contributed and invited papers and span the whole range of computational science, from foundational issues in computer science and algorithmic mathematics to advanced applications in virtually all application fields making use of computational techniques. These proceedings give a unique account of recent results in the field.

SEMANTIC MODELING AND INTEROPERABILITY IN PRODUCT AND PROCESS ENGINEERING

A TECHNOLOGY FOR ENGINEERING INFORMATICS

Springer Science & Business Media In the past decade, feature-based design and manufacturing has gained some momentum in various engineering domains to represent and reuse semantic patterns with effective applicability. However, the actual scope of feature application is still very limited. Semantic Modeling and Interoperability in Product and Process Engineering provides a systematic solution for the challenging engineering informatics field aiming at the enhancement of sustainable knowledge representation, implementation and reuse in an open and yet practically manageable scale. This semantic modeling technology supports uniform,

multi-facet and multi-level collaborative system engineering with heterogeneous computer-aided tools, such as CAD/CAM, CAE, and ERP. This presented unified feature model can be applied to product and process representation, development, implementation and management. Practical case studies and test samples are provided to illustrate applications which can be implemented by the readers in real-world scenarios. By expanding on well-known feature-based design and manufacturing approach, Semantic Modeling and Interoperability in Product and Process Engineering provides a valuable reference for researchers, practitioners and students from both academia and engineering field.

CYBER-PHYSICAL SYSTEMS OF SYSTEMS

FOUNDATIONS - A CONCEPTUAL MODEL AND SOME DERIVATIONS: THE AMADEOS LEGACY

Springer This book is open access under a CC BY 4.0 license. Technical Systems-of-Systems (SoS) - in the form of networked, independent constituent computing systems temporarily collaborating to achieve a well-defined objective - form the backbone of most of today's infrastructure. The energy grid, most transportation systems, the global banking industry, the water-supply system, the military equipment, many embedded systems, and a great number more, strongly depend on systems-of-systems. The correct operation and continuous availability of these underlying systems-of-systems are fundamental for the functioning of our modern society. The 8 papers presented in this book document the main insights on Cyber-Physical System of Systems (CPSoSs) that were gained during the work in the FP7-610535 European Research Project AMADEOS (acronym for Architecture for Multi-criticality Agile Dependable Evolutionary Open System-of-Systems). It is the objective of this book to present, in a single consistent body, the foundational concepts and their relationships. These form a conceptual basis for the description and understanding of SoSs and go deeper in what we consider the characterizing and distinguishing elements of SoSs: time, emergence, evolution and dynamicity.

DESIGN PATTERNS

ELEMENTS OF REUSABLE OBJECT-ORIENTED SOFTWARE

Pearson Deutschland GmbH Software -- Software Engineering.

AGILE DEVELOPMENT WITH ICONIX PROCESS

PEOPLE, PROCESS, AND PRAGMATISM

Apress *Describes an agile process that works on large projects *Ideal for hurried developers who want to develop software in teams *Incorporates real-life C#/.NET web project; can compare this with cases in book

COMPONENT BASED TECHNOLOGY

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Special Features: · This is a unique book integrating concepts of CORBA, DCOM and EJB. It eliminates the need to refer separate book on these topics. · Comprehensive question bank at the end of each chapter and after each section. · Fully solved Model Question Papers. · Chapter 12 totally devoted to programming examples. · Provides in depth knowledge of component technology and different Distributed Object Technologies namely RMI, RMI/IIOP, CORBA and DCOM and component models like JavaBeans, CCM, .NET and EJB. · A separate chapter on introduction to Service-Oriented Architecture. About The Book: Component software technology deals with the idea of breaking large, complex software applications into a series of pre-built and easily developed, understood, and changeable software modules. This facilitates cheap and quick delivery of software solutions through reuse. The goal of this book is to introduce the concept of distributed components and how they work. This book brings together the major object models used in distributed computing - RMI, CORBA, DCOM and EJB. It also describes the principles of component technology and how it can be applied to enterprise systems. This book is beneficial for all IT Professionals and students who are interested in gaining extensive information about distributed object systems and component technology.

DESIGN AND IMPLEMENTATION OF A SERVICE-ORIENTED INFORMATION SYSTEM ARCHITECTURE BASED ON A CASE STUDY

diplom.de Inhaltsangabe: Abstract: In today's companies changes happen very fast. On the one hand more and more new technologies are arising, on the other hand business processes have to change because of mergers and acquisitions, new regularities, changing customer requirements and so forth. As business processes are supported by information technology, information technology has to cope with both types of changes. From a business perspective on-demand adaptation of information technology to business is required. Service-oriented architecture (SOA) is currently discussed as an opportunity to better adapt to those changes. According to Gartner's hype cycle for emerging technologies SOA already crossed the peak and is now in the trough of disillusionment. But SOA is far from being unfashionable as it would be expected during this phase. There is still high media coverage and a lot of SOA books have been published recently or will be published during the next months. What is true, however, is that the expectations are getting more realistic and people start to think about the real benefits. This is probably due to the fact that companies experienced, that implementing an SOA is not as fast and easy as the marketing hype might have given the impression. Although the hype surrounding SOA is immense, the concept is still in its early childhood with regards to concrete implementations. According to a survey conducted by Experton Group only three percent of 110 German enterprises, all with over 100 Employees, have a SOA based solution in place. Besides high costs expected from migration to SOA the lack of SOA know-how is identified as a main reason. As the survey reveals 45 percent of the interviewed enterprises have nearly no knowledge or no knowledge about SOA at all. Another 38 percent have only basic knowledge. The lack of knowledge is confirmed

by a survey from the research company Quocirca, which found out, based on a sample size of 1500, that 30 percent of respondents have absolutely no knowledge about SOA and 25 percent have only minimal knowledge. Similar results are found among enterprises using SAP software. The results of an online survey conducted by the German speaking SAP User Group (DSAG) shows that 64 percent of 344 enterprises are just a little or not at all familiar with enterprise SOA and only every fifth enterprise has developed a platform strategy. Furthermore, enterprise SOA is still a topic of the IT department, although it would be [...]

PHILOSOPHY AND CLIMATE SCIENCE

Cambridge University Press There continues to be a vigorous public debate in our society about the status of climate science. Much of the skepticism voiced in this debate suffers from a lack of understanding of how the science works - in particular the complex interdisciplinary scientific modeling activities such as those which are at the heart of climate science. In this book Eric Winsberg shows clearly and accessibly how philosophy of science can contribute to our understanding of climate science, and how it can also shape climate policy debates and provide a starting point for research. Covering a wide range of topics including the nature of scientific data, modeling, and simulation, his book provides a detailed guide for those willing to look beyond ideological proclamations, and enriches our understanding of how climate science relates to important concepts such as chaos, unpredictability, and the extent of what we know.

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