Domain-Specific Application Frameworks

Frameworks Experience by Industry

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Domain-Specific Application Frameworks Mohamed E. Fayad,Ralph E. Johnson,2000 Object Technology An invaluable collection of domain specific frameworks Domain Specific Application Frameworks Frameworks provide generic software architectures that can be reused indefinitely to generate new applications But they don t readily translate from one business or industry domain to another A telecommunications framework looks very different from a currency trading framework for instance Developers need instruction on how to build frameworks specific to the domains for which they program Now this book CD ROM package gives developers models and much more Each chapter is built around a case study reporting a major framework implementation or customization project The 30 examples contained in the book cover an array of application domains including Flexible manufacturing architectures Computer integrated manufacturing New generation control systems Concurrent engineering Reliable distributed computing High performance Web servers Multimedia telecommunications Networking and telecommunications Industrial visualization And many others The enclosed CD ROM gives you Example frameworks Documentation and manuals Framework code and implementation tips Sample framework architectures and models Design patterns and presentations Animated demonstrations *Visual Servoing* Rong-Fong Fung,2010-04-01 The goal of this book is to introduce the visional application by excellent researchers in the world currently and offer the knowledge that can also be applied to another field widely This book collects the main studies about machine vision currently in the world and has a powerful persuasion in the applications employed in the machine vision The contents which demonstrate that the machine vision theory are realized in different field For the beginner it is easy to understand the development in the vision servoing For engineer professor and researcher they can study and learn the chapters and then employ another application method **The UML Profile for Framework Architectures** Marcus Fontoura,Wolfgang Pree,Bernhard Rumpe,2002 This book presents a set of principles for designing frameworks and practical techniques for adapting them efficiently It also describes how UML may be used to model frameworks and their applications and proposes a set of extensions to the UML which apply specifically to framework design <u>A Framework for Visualizing Information</u> E.H. Chi,2013-03-14 Fundamental solutions in understanding information have been elusive for a long time The field of Artificial Intelligence has proposed the Turing Test as a way to test for the smart behaviors of computer programs that exhibit human like qualities Equivalent to the Turing Test for the field of Human Information Interaction HII getting information to the people that need them and helping them to understand the information is the new challenge of the Web era In a short amount of time the infrastructure of the Web became ubiquitious not just in terms of protocols and transcontinental cables but also in terms of everyday devices capable of recalling network stored data sometimes wire lessly Therefore as these infrastructures become reality our attention on HII issues needs to shift from information access to information sensemaking a relatively new term coined to describe the process of digesting information and understanding its structure and intricacies

so as to make decisions and take action   <u>Advances in Object-Oriented Information Systems</u> Jean-Michel Bruel,Zohra Bellahsene,2003-08-02 For the rst time four workshops have been held in conjunction with the 8th Object Oriented Information Systems conference OOIS 2002 to encourage teraction between researchers and practitioners Workshop topics are of course inline with the conference s scienti c scope and provide a forum for groups of researchers and practitioners to meet together more closely and to exchange opinions and advanced ideas and to share preliminary results on focused issues in an atmosphere that fosters interaction and problem solving The conference hosted four one day workshops The four selected workshops were fully in the spirit of a workshop session hosted by a main conference Indeed OOIS deals with all the topics related to the use of object oriented techniques for the development of information systems The four workshops are very speci c and contribute to enlarging the spectrum of the more general topics treated in the main conference The rst workshop focused on a very speci c and key c cept of object oriented development the specialization generalization hierarchy The second one explored the use of non traditional approaches at the edge of object oriented techniques such as aspects AI etc to improve reuse The third workshop dealt with optimization in Web based information systems And nally the fourth workshop investigated issues related to model driven software development   **Proceedings of the 12th International Symposium on Computer Science in Sport (IACSS 2019)** Martin Lames,Alexander Danilov,Egor Timme,Yuri Vassilevski,2019-11-13 This book provides an overview of current activities in the fascinating area between computer science and sports presenting the state of the art in utilising the latest developments in computer science to support sports coaches and athletes It covers a broad range of topics reflecting the diversity of this interdisciplinary field including concepts in informatics like expert systems modelling simulation machine learning robotics and sensor integration Further it describes applications of computer science in sports such as alpine skiing badminton football rowing and table tennis as well as interesting applications areas of sport like dementia physiology training and space flights The appeals to informaticians interested in the application field of sports as well as for sports scientists and practitioners looking for advanced methods in their particular sport   *Software Technology And Engineering - Proceedings Of The International Conference On Icste 2009* Venkatesh Mahadevan,Jianhong Zhou,Allan Ng,2009-07-16 The 2009 International Conference on Software Technology and Engineering ICSTE 2009 will be held in Chennai India during July 24 26 2009 The objective of the ICSTE 2009 is to provide a platform for researchers engineers academicians as well as industrial professionals from all over the world to present their research results and development activities in Software Technology and Engineering This conference provides opportunities for the delegates to exchange new ideas and application experiences to establish business or research relations and to find global partners for future collaboration Submitted conference papers will be reviewed by technical committees of the conference   <u>Proceedings of the 2nd Conference on Domain-Specific Languages (DSL '99)</u> ,2000   <u>Implementing Application Frameworks</u> Mohamed E. Fayad,Douglas C. Schmidt,1999-10-11 Object Technology A gold mine of enterprise

application frameworks Implementing Application Frameworks While frameworks can save your company millions in development costs over time the initial investment can be quite high This book CD ROM package helps you to reduce the cost of framework development by providing 40 case studies documenting the experiences of framework builders and users at major corporations and research labs worldwide Throughout the authors extract important lessons and highlight technical and organizational implementation practices that have been proven to yield the biggest payoff Focusing primarily on business systems and agent based application frameworks it covers frameworks for Data processing Agent based applications Artificial intelligence applications Object oriented business processes System application frameworks Programming languages and tools And much more The enclosed CD ROM gives you Example frameworks Documentation and manuals Framework code and implementation tips Sample framework architectures and models Design patterns and presentations Animated demonstrations **Experiences in Software Evolution and Reuse** Svein Hallsteinsen,Maddali Paci,1997-09-18 lfimplementing systematic reuse is risky not doing it is even more risky Trying systematic reuse unsuccessfully can cost precious time and resources and may make management sceptical of trying it again But if your competitors do it successfully and you do not you may lose market share and possibly an entire market W B Frakes and S Isoda 1994 Software companies today are faced with new and more challenging market pressures In response to this challenge they have to reduce the time to market with new or enhanced products increase the diversity of products available to the customers and enhance the standardisation and interoperability of the products At the same time many companies carry the burden of large legacy systems that have become too expensive to maintain and cannot sustain the demands of the marketing department for alterations leading to business opportunities being lost BEN95 However the systems are very valuable and cannot be simply replaced because of the costs that such an operation entails Simply replacing them may be too expensive because of the huge volumes of on line data that must be converted among other reasons **ACM SIGPLAN Notices** ,2000 **Cadernos de Computação** ,2002 21st International Conference on Distributed Computing Systems ,2001 Annotation Contains papers from an April 2001 conference on distributed system technology and its applications Papers reflect recent developments in distributed computer systems in terms of design analysis and implementation and evaluation Papers are in sections on distributed algorithms operating systems and agent systems stabilization problems load sharing and migration methods applications modeling and simulation network management real time systems fault tolerant issues multicast and anycast distributed programming models object oriented systems security issues distributed databases mobile computing and communication mobility theory and practice network protocols distributed process engineering resource management middleware and Internet technology Lacks a subject index c Book News Inc **Object-Oriented and Classical Software Engineering** Stephen Schach,2007 Integrating case studies to show the object oriented approach to software engineering Object Oriented and Classical Software Engineering 7 e presents an excellent introduction to software engineering

fundamentals covering both traditional and object oriented techniques The coverage of both Agile processes and Open Source Software has been considerably expanded In addition the Osbert Oglesby running case study has been replaced with a new case study on the Martha Stockton Greengage Foundation The new study highlights even more aspects of the Unified Process The book s unique organization remains in place with Part I covering underlying software engineering theory and Part II presenting the more practical life cycle Complementing this well balanced approach is the straightforward student friendly writing style through which difficult concepts are presented in a clear understandable manner The new seventh edition provides an extensive updating of this classic software engineering text **Building Application Frameworks** Mohamed E. Fayad,Douglas C. Schmidt,Ralph E. Johnson,1999-09-27 Object Technology The first experience based guide to building object oriented frameworks Building Application Frameworks By providing reusable skeletons on which to build new applications frameworks can save you countless hours and thousands even millions of dollars in development costs Written and edited by some of the top names in the object oriented programming world this is the first complete study of building frameworks Using examples drawn from successful implementations worldwide it walks you through all the steps of a framework development project Providing guidance on all key technical and business issues surrounding framework construction it covers Techniques for developing integrating and adapting frameworks Leveraging existing design and code Selecting and utilizing frameworks Tracking controlling and documenting framework development Maintaining measuring and controlling framework quality Training developers in the effective use of frameworks Evaluating frameworks and framework investments *27th EUROMICRO Conference* ,2001 Annotation This proceedings volume contains the papers given by international researchers at the 27th Euromicro conference held in Warsaw in 2001 The conference featured workshops on multimedia and telecommunications software process and product improvement and component based software engineering A sampling of topics includes components for real time systems software reliability network protocols and audio video processing management The volume is not indexed c Book News Inc **C++ Network Programming** Douglas C. Schmidt,Stephen D. Huston,2003 Writing high quality networked applications is difficult it s expensive complicated and error prone This book picks up where volume one left off and guides C programmers through using the Adaptive Communication Environment ACE the most complete toolkit available for networked programming *Proceedings* ,2004 Oracle JDeveloper 10g Handbook Avrom Roy-Faderman,Peter Koletzke,Paul Dorsey,2004-10-21 Create web and database applications with Oracle JDeveloper 10g the complete integrated Java development environment with help from this comprehensive real world resource Many chapters contain hands on practices and source code examples reinforcing vital concepts It s all here from the nuts and bolts of J2EE applications servlets and JavaServer Pages technology to advanced development using the Oracle Application Development Framework From the exclusive publishers of Oracle Press books Oracle JDeveloper 10g Handbook will have you developing Java based applications in no time **Object-oriented**

Programming with C++ and Smalltalk Caleb Drake,1998 This text describes the design goals and language features of object oriented languages without viewing them from the perspective of any particular language The author discusses Smalltalk 80 and C so students can understand how these concepts are realized It provides coverage of the object model from a software design and language feature perspective as well as covering key object oriented principles date abstraction inheritance polymorphism and dynamic binding Detailed coverage of Smalltalk and C emphasize their similarities and differences in terms of design goals language features and usage Also discussed are the benefits of the object model the latest extensions to C and the application of object oriented concepts to the development of large software projects Chapter summaries extensive exercises and a glossary of object oriented terminology support the text

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