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Use Case Modeling Object-oriented Software Engineering *Managing Software Requirements UML 2 und Patterns angewendet - objektorientierte Softwareentwicklung* Use Cases effektiv erstellen **The Use Case and Smart Grid Architecture Model Approach Writing Effective Use Cases** **The Use Case and Smart Grid Architecture Model Approach** Advanced Use Case Modeling **Software requirements Scenarios, Stories, Use Cases** Data Governance for Managers *Software Engineering for Students The Case Approach to Financial Planning Case Approach to Counseling and Psychotherapy* **Encyclopedia of Software Engineering Three-Volume Set (Print)** *Applying UML The Case-by-case Approach to Privatization An Integrated Approach to Software Engineering* **Use Case Driven Object Modeling with UML BPMN 2.0 - Business Process Model and Notation Tests and Proofs** *Product Focused Software Process Improvement Essential Software Testing Object-Oriented Programming in C++ Towards a Service-Based Internet Der rational unified process UML for Database Design* **Software Architectures and Component Technology** *Datenintensive Anwendungen designen* **Computational Science and Its Applications - ICCSA 2003 Aspect-oriented Software Development with Use Cases Impact of Design Research on Industrial Practice A Case Approach to Perioperative Drug-Drug Interactions Advances in Information and Computer Security Software Engineering with Computational Intelligence The Challenger Sale** *The Advanced Smart Grid: Edge Power Driving Sustainability, Second Edition* Object-Process Methodology **ECEL2013- Proceedings for the 12th European Conference on eLearning**

Der rational unified process Jul 30 2020

The Challenger Sale Sep 19 2019 Gibt es ein Rezept für Verkaufserfolg? Die meisten Führungskräfte im Vertrieb verweisen hier zuerst auf eine gute Kundenbeziehung – und sie liegen falsch damit. Die besten Verkäufer versuchen nicht nur einfach eine gute Beziehung zu ihren Kunden aufzubauen – sie stellen primär die Denkweisen und Überzeugungen ihrer Kunden in Frage. Basierend auf einer umfassenden Studie mit mehreren tausend Vertriebsmitarbeitern in unterschiedlichen Branchen und Ländern, zeigt „The Challenger Sale“, dass das klassische vertriebliche Vorgehen mit dem Aufbau von Beziehungen immer weniger funktioniert, je komplexer die Lösungen sind. Doch wie unterscheiden sich Fertigkeiten, Verhaltensweisen, Wissen und Einstellung der Spitzenverkäufer vom Durchschnitt? Die Studie zeigt deutlich, dass die Verhaltensweisen, die den Challenger so erfolgreich machen, replizierbar und strukturiert vermittelbar sind. Die Autoren erklären, wie fast jeder Verkäufer, ausgestattet mit den richtigen Werkzeugen, diesen Ansatz erfolgreich umsetzen kann und so höhere Kundenbindung und letztendlich mehr Wachstum generiert. Das Buch ist eine Quelle der Inspiration und hilft dem Leser, sein Profil als Vertriebler zu analysieren und gezielt zu verändern, um am Ende kreativer und besser zu sein.

The Use Case and Smart Grid Architecture Model Approach May 20 2022 This book introduces readers to the fundamentals of the IEC 62559 Use Case Methodology, explains how it is related to the Smart Grid Architecture Model (SGAM), and details how a holistic view for both architecture and requirements engineering can be achieved. It describes a standardized and holistic approach to requirements engineering for smart grid projects based on work conducted in the context of the EU M/490 standardization mandate. Over the last years, this method has been established in Europe as the basic building block of requirements engineering in the utilities sector. The authors present a canonical, structured approach that users can apply to the Use Case Methodology and the SGAM, as well as open tools for this purpose. The application in various domains outside the smart grid is also discussed, as it can be used for critical infrastructures or system-of-systems domains like Industrie 4.0 and Ambient Assisted Living. Accordingly, the book also presents various architecture models for different fields of application, like EMAM, SCIAM, RAMI 4.0, and MAF.

UML 2 und Patterns angewendet - objektorientierte Softwareentwicklung Jul 22 2022 Dieses Lehrbuch des international bekannten Autors und Software-Entwicklers Craig Larman ist ein Standardwerk zur objektorientierten Analyse und Design unter Verwendung von UML 2.0 und Patterns. Das Buch zeichnet sich insbesondere durch die Fähigkeit des Autors aus, komplexe Sachverhalte anschaulich und praxisnah darzustellen. Es vermittelt grundlegende OOA/D-Fertigkeiten und bietet umfassende Erläuterungen zur iterativen Entwicklung und zum Unified Process (UP). Anschliessend werden zwei Fallstudien vorgestellt, anhand derer die einzelnen Analyse- und Designprozesse des UP in Form einer Inception-, Elaboration- und Construction-Phase durchgespielt werden

Use Case Driven Object Modeling with UML Mar 06 2021 This compact book helps application developers bridge the gap between the theory of the newly created Unified Software Development Process and the practical realities necessary to design and build a software system. The authors present the key ingredients of the Unified Process and demonstrate how the process was conceived to work with UML, emphasizing the application of Use Cases as a primary design tool. The book incorporates a wealth of practical experience showcased by four case studies -- a hospital information system, a video on demand system, a portfolio management system, and a vehicle navigation (IVHS) system.

Data Governance for Managers Nov 14 2021 Professional data management is the foundation for the successful digital transformation of traditional companies. Unfortunately, many companies fail to implement data governance because they do not fully understand the complexity of the challenge (organizational structure, employee empowerment, change management, etc.) and therefore do not include all aspects in the planning and implementation of their data governance. This book explains the driving role that a responsive data organization can play in a company's digital transformation. Using proven process models, the book takes readers from the basics, through planning and implementation, to regular operations and measuring the success of data governance. All the important decision points are highlighted, and the advantages and disadvantages are discussed in order to identify digitization potential, implement it in the company, and develop customized data governance. The book will serve as a useful guide for interested newcomers as well as for experienced managers.

Object-oriented Software Engineering Sep 24 2022 Based on Objectory which is the first commercially available comprehensive object-oriented process for developing large scale industrial systems.

Software Architectures and Component Technology May 28 2020 Software architectures have gained wide popularity in the last decade. They generally play a fundamental role in coping with the inherent difficulties of the development of large-scale and complex software systems. Component-oriented and aspect-oriented programming enables software engineers to implement complex applications from a set of pre-defined components. Software Architectures and Component Technology collects excellent chapters on software architectures and component technologies from well-known authors, who not only explain the advantages, but also present the shortcomings of the current approaches while introducing novel solutions to overcome the shortcomings. The unique features of this book are: evaluates the current architecture design methods and component composition techniques and explains their shortcomings; presents three practical architecture design methods in detail; gives four industrial architecture design examples; presents conceptual models for distributed message-based architectures; explains techniques for refining architectures into components; presents the recent developments in component and aspect-oriented techniques; explains the status of research on Piccola, Hyper/J®, Pluggable Composite Adapters and Composition Filters. Software Architectures and Component Technology is a suitable text for graduate level students in computer science and engineering, and as a reference for researchers and practitioners in industry.

Product Focused Software Process Improvement Dec 03 2020 This book constitutes the refereed proceedings of the Second International Conference on Product Focused Software Process Improvement, PROFES 2000, held in Oulu,

Finland, in June 2000. The 30 revised full papers presented were carefully reviewed and selected from a total of 60 submitted full papers. The book is divided into topical sections on process improvement, empirical software engineering, industrial experiences, methods and tools, software process and modeling, software and process measurement, and organizational learning and experience factory.

A Case Approach to Perioperative Drug-Drug Interactions Dec 23 2019 The occurrence of deleterious or even fatal drug-drug interactions (DDIs) in the perioperative period is no longer a theoretical concern but a harrowing reality. A Case Approach to Perioperative Drug-Drug Interactions addresses the complex realm of pharmacokinetic drug interactions in an easy-to-read volume that functions as both a comprehensive clinical reference and a casebook. The book presents a summary of the core concepts of drug interactions; an organized, annotated presentation of the drug interactions most relevant to the perioperative clinician; and approximately 200 case scenarios that highlight specific drug interactions. This book fills a real void in the clinical literature and is invaluable to anesthesiologists and surgeons, as well as trainees in both specialties; intensive care staff, including physicians, physician's assistants, and nurses; and nurse practitioners who staff preoperative evaluation clinics.

ECEL2013- Proceedings for the 12th European Conference on eLearning Jun 16 2019

Advances in Information and Computer Security Nov 21 2019 The Fifth International Workshop on Security (IWSEC 2010) was held at Kobe International Conference Center, Kobe, Japan, November 22–24, 2010. The workshop was co-organized by CSEC, a special interest group concerned with the computer security of the Information Processing Society of Japan (IPSJ) and ISEC, a technical group concerned with the information security of The Institute of Electronics, Information and Communication Engineers (IEICE). The excellent Local Organizing Committee was led by the IWSEC 2010 General Co-chairs, Hiroaki Kikuchi and Toru Fujiwara. This year IWSEC 2010 had three tracks, the Foundations of Security (Track I), Security in Networks and Ubiquitous Computing Systems (Track II), and Security in Real Life Applications (Track III), and the review and selection processes for these tracks were independent of each other. We received 75 paper submissions including 44 submissions for Track I, 20 submissions for Track II, and 11 submissions for Track III. We would like to thank all the authors who submitted papers. Each paper was reviewed by at least three reviewers. In addition to the Program Committee members, many external reviewers joined the review process from their particular areas of expertise. We were fortunate to have this energetic team of experts, and are grateful to all of them for their hard work. This hard work included very active discussions; the discussion phase was almost as long as the initial individual reviewing. The review and discussions were supported by a very nice Web-based system, iChair. We would like to thank its developers. Following the review phases, 22 papers including 13 papers for Track I, 6 papers for Track II, and 3 papers for Track III were accepted for publication in this volume of Advances in Information and Computer Security.

Object-Oriented Programming in C++ Oct 01 2020 Object-Oriented Programming in C++ begins with the basic principles of the C++ programming language and systematically introduces increasingly advanced topics while illustrating the OOP methodology. While the structure of this book is similar to that of the previous edition, each chapter reflects the latest ANSI C++ standard and the examples have been thoroughly revised to reflect current practices and standards. Educational Supplement Suggested solutions to the programming projects found at the end of each chapter are made available to instructors at recognized educational institutions. This educational supplement can be found at www.prenhall.com, in the Instructor Resource Center.

UML for Database Design Jun 28 2020 Typically, analysis, development, and database teams work for different business units, and use different design notations. With UML and the Rational Unified Process (RUP), however, they can unify their efforts -- eliminating time-consuming, error-prone translations, and accelerating software to market. In this book, two data modeling specialists from Rational Software Corporation show exactly how to model data with UML and RUP, presenting proven processes and start-to-finish case studies. The book utilizes a running case study to bring together the entire process of data modeling with UML. Each chapter dissects a different stage of the data modeling process, from requirements through implementation. For each stage, the authors cover workflow and participants' roles, key concepts, proven approach, practical design techniques, and more. Along the way, the authors demonstrate how integrating data modeling into a unified software design process not only saves time and money, but gives all team members a far clearer understanding of the impact of potential changes. The book includes a detailed glossary, as well as appendices that present essential Use Case Models and descriptions. For all software team members: managers, team leaders, systems and data analysts, architects, developers, database designers, and others involved in building database applications for the enterprise.

Use Case Modeling Oct 25 2022 Discusses how to define and organize use cases that model the user requirements of a software application. The approach focuses on identifying all the parties who will be using the system, then writing detailed use case descriptions and structuring the use case model. An ATM example runs throughout the book. The authors work at Rational Software. Annotation copyrighted by Book News, Inc., Portland, OR

Tests and Proofs Jan 04 2021 This book constitutes the proceedings of the 15th International Conference on Tests and Proofs, TAP 2021, which was held as part of Software Technologies: Applications and Foundations, STAF 2021, and took place online during June 12-25, 2021. The 6 full papers included in this volume were carefully reviewed and selected from 10 submissions. They were organized in topical sections on learning, test resource allocation and benchmarks and on testing.

Object-Process Methodology Jul 18 2019 Object-Process Methodology (OPM) is an intuitive approach to systems engineering. This book presents the theory and practice of OPM with examples from various industry segments and engineering disciplines, as well as daily life. OPM is a generic, domain independent approach that is applicable almost anywhere in systems engineering.

Datenintensive Anwendungen designen Apr 26 2020 Daten stehen heute im Mittelpunkt vieler Herausforderungen im Systemdesign. Dabei sind komplexe Fragen wie Skalierbarkeit, Konsistenz, Zuverlässigkeit, Effizienz und Wartbarkeit zu klären. Darüber hinaus verfügen wir über eine überwältigende Vielfalt an Tools, einschließlich relationaler Datenbanken, NoSQL-Datenspeicher, Stream- und Batchprocessing und Message Broker. Aber was verbirgt sich hinter diesen Schlagworten? Und was ist die richtige Wahl für Ihre Anwendung? In diesem praktischen und umfassenden Leitfaden unterstützt Sie der Autor Martin Kleppmann bei der Navigation durch dieses schwierige Terrain, indem er die Vor- und Nachteile verschiedener Technologien zur Verarbeitung und Speicherung von Daten aufzeigt. Software verändert sich ständig, die Grundprinzipien bleiben aber gleich. Mit diesem Buch lernen Softwareentwickler und -architekten, wie sie die Konzepte in der Praxis umsetzen und wie sie Daten in modernen Anwendungen optimal nutzen können. Inspizieren Sie die Systeme, die Sie bereits verwenden, und erfahren Sie, wie Sie sie effektiver nutzen können Treffen Sie fundierte Entscheidungen, indem Sie die Stärken und Schwächen verschiedener Tools kennenlernen Steuern Sie die notwendigen Kompromisse in Bezug auf Konsistenz, Skalierbarkeit, Fehlertoleranz und Komplexität Machen Sie sich vertraut mit dem Stand der Forschung zu verteilten Systemen, auf denen moderne Datenbanken aufbauen Werfen Sie einen Blick hinter die Kulissen der wichtigsten Onlinedienste und lernen Sie von deren Architekturen

Managing Software Requirements Aug 23 2022 A classic treatise that defined the field of applied demand analysis, Consumer Demand in the United States: Prices, Income, and Consumption Behavior is now fully updated and expanded for a new generation. Consumption expenditures by households in the United States account for about 70% of America's GDP. The primary focus in this book is on how households adjust these expenditures in response to changes in price and income. Econometric estimates of price and income elasticities are obtained for an exhaustive array of goods and services using data from surveys conducted by the Bureau of Labor Statistics, providing a better understanding of consumer demand. Practical models for forecasting future price and income elasticities are also demonstrated. Fully revised with over a dozen new chapters and appendices, the book revisits the original Taylor-Houthakker models while examining new material as well, such as the use of quantile regression and the stationarity of consumer preference. It also explores the emerging connection between neuroscience and consumer behavior, integrating the economic literature on demand theory with psychology literature. The most comprehensive treatment of the topic to date, this volume will be an essential resource for any researcher, student or professional economist working on consumer behavior or demand theory, as well as investors and policymakers concerned with the impact of economic fluctuations.

Towards a Service-Based Internet Aug 31 2020 This volume constitutes the refereed proceedings of the Fourth European Conference, ServiceWave 2011, held in Poznan, Poland, in October 2011. The 25 revised full papers presented together with 3 invited presentations were carefully reviewed and selected from numerous submissions. They are organized in topical sections on cloud computing, security, privacy and trust, service engineering fundamentals, business services, and FI-PPP. In addition to the scientific track, 14 extended abstracts of demonstrations covering a wide spectrum of technology and application domains were accepted.

Writing Effective Use Cases Apr 19 2022 This guide will help readers learn how to employ the significant power of use cases to their software development efforts. It provides a practical methodology, presenting key use case concepts.

Impact of Design Research on Industrial Practice Jan 24 2020 Showcasing exemplars of how various aspects of design research were successfully transitioned into and influenced, design practice, this book features chapters written by eminent international researchers and practitioners from industry on the Impact of Design Research on Industrial Practice. Chapters written by internationally acclaimed researchers of design analyse the findings (guidelines, methods and tools), technologies/products and educational approaches that have been transferred as tools, technologies and people to transform industrial practice of engineering design, whilst the chapters that are written by industrial practitioners describe their experience of how various tools, technologies and training impacted design practice. The main benefit of this book, for educators, researchers and practitioners in (engineering) design, will be access to a comprehensive coverage of case studies of successful transfer of outcomes of design research into practice; as well as guidelines and platforms for successful transfer of research into practice.

The Case-by-case Approach to Privatization May 08 2021 This report provides a brief review of recent trends and key policies in strengthening national agricultural research systems. Chapters provide a brief overview of the recent evolution of national research systems and a synthesis of policy issues and good practices for developing these systems including the involvement of universities and the private sector. They also focus on key policy and institutional reforms for strengthening public research institutions including funding, research management, and client orientation. Finally they discuss implications for the World Bank in its ongoing efforts to strengthen national research systems.

Aspect-oriented Software Development with Use Cases Feb 23 2020 "A refreshingly new approach toward improving use-case modeling by fortifying it with aspect orientation." --Ramnivas Laddad, author of AspectJ in Action "Since the 1980s, use cases have been a way to bring users into software design, but translating use cases into software has been an art, at best, because user goods often don't respect code boundaries. Now that aspect-oriented programming (AOP) can express crosscutting concerns directly in code, the man who developed use cases has proposed step-by-step methods for recognizing crosscutting concerns in use cases and writing the code in separate modules. If these methods are at all fruitful in your design and development practice, they will make a big difference in software quality for developers and users alike. --Wes Isberg, AspectJ team member" This book not only provides ideas and examples of what aspect-oriented software development is but how it can be utilized in a real development project." --Michael Ward, ThoughtWorks, Inc. "No system has ever been designed from scratch perfectly; every system is composed of features layered in top of features that accumulate over time. Conventional design techniques do not handle this well, and over time the integrity of most systems degrades as a result. For the first time, here is a set of techniques that facilitates composition of behavior that not only allows systems to be defined in terms of layered functionality but composition is at the very heart of the approach. This book is an important advance in modern methodology and is certain to influence the direction of software engineering in the next decade, just as Object-Oriented Software Engineering influenced the last." --Kurt Bittner, IBM Corporation "Use cases are an excellent means to capture system requirements and drive a user-centric view of system development and testing. This book offers a comprehensive guide on explicit use-case-driven development from early requirements modeling to design and implementation. It provides a simple yet rich set of guidelines to realize use-case models using aspect-oriented design and programming. It is a valuable resource to researchers and practitioners alike." --Dr. Awais Rashid, Lancaster University, U.K., and author of Aspect-Oriented Database Systems "AOSD is important technology that will help developers produce better systems. Unfortunately, it has not been obvious how to integrate AOSD across a project's lifecycle. This book shatters that barrier, providing concrete examples on how to use AOSD from requirements analysis through testing." --Charles B. Haley, research fellow, The Open University, U.K. Aspect-oriented programming (AOP) is a revolutionary new way to think about software engineering. AOP was introduced to address crosscutting concerns such as security, logging, persistence, debugging, tracing, distribution, performance monitoring, and exception handling in a more effective manner. Unlike conventional development techniques, which scatter the implementation of each concern into multiple classes, aspect-oriented programming localizes them. Aspect-oriented software development (AOSD) uses this approach to create a better modularity for functional and nonfunctional requirements, platform specifics, and more, allowing you to build more understandable systems that are easier to configure and extend to meet the evolving needs of stakeholders. In this highly anticipated new book, Ivar Jacobson and Pan-Wei Ng demonstrate how to apply use cases--a mature and systematic approach to focusing on stakeholder concerns--and aspect-orientation in building robust and extensible systems. Throughout the book, the authors employ a single, real-world example of a hotel management information system to make the described theories and practices concrete and understandable. The authors show how to identify, design, implement, test, and refactor use-case modules, as well as extend them. They also demonstrate how to design use-case modules with the Unified Modeling Language (UML)--emphasizing enhancements made in UML 2.0--and how to achieve use-case modularity using aspect technologies, notably AspectJ. Key topics include Making the case for use cases and aspects Capturing and modeling concerns with use cases Keeping concerns separate with use-case modules Modeling use-cases slices and aspects using the newest extensions to the UML notation Applying use cases and aspects in projects Whatever your level of experience with aspect-oriented programming, Aspect-Oriented Software Development with Use Cases will teach you how to develop better software by embracing the paradigm shift to AOSD.

Computational Science and Its Applications - ICCSA 2003 Mar 26 2020 The three-volume set, LNCS 2667, LNCS 2668, and LNCS 2669, constitutes the refereed proceedings of the International Conference on Computational Science and Its Applications, ICCSA 2003, held in Montreal, Canada, in May 2003. The three volumes present more than 300 papers and span the whole range of computational science from foundational issues in computer science and mathematics to advanced applications in virtually all sciences making use of computational techniques. The proceedings give a unique account of recent results in computational science.

BPMN 2.0 - Business Process Model and Notation Feb 05 2021 BPMN (Business Process Model and Notation) ist der etablierte Standard für die Geschäftsprozessmodellierung, der in nur wenigen Jahren eine weite Verbreitung in der Praxis gefunden hat. Alle wichtigen Modellierungswerkzeuge bieten die BPMN zur grafischen Darstellung betrieblicher Abläufe an. Es lassen sich sowohl fachliche Modelle als auch technisch ausgerichtete Diagramme erstellen, die als Grundlage für die Ausführung in einem Workflow- oder Business Process Management-System (BPMS) dienen. Dieses Buch führt anhand zahlreicher praxisorientierter Beispiele schrittweise in die BPMN ein. Ausgehend von den grundlegenden Elementen zur übersichtlichen Ablaufmodellierung werden nach und nach alle Diagramme der BPMN 2.0 detailliert vorgestellt. Sie lernen die komplette Notation kennen und verstehen. Sie erfahren, wie sie die verschiedenen Sprachkonstrukte korrekt einsetzen. Eine Sammlung bewährter Muster hilft Ihnen bei der Lösung typischer Fragestellungen aus der Praxis der Prozessmodellierung.

Advanced Use Case Modeling Feb 17 2022 "This book isn't just another introduction to use cases. The authors have used their wealth of experience to produce an excellent and insightful collection of detailed examples, explanations, and advice on how to work with use cases." --Maria Ericsson The toughest challenge in building a software system that meets the needs of your audience lies in clearly understanding the problems that the system must solve. Advanced Use Case Modeling presents a framework for discovering, identifying, and modeling the problem that the software system will ultimately solve. Software developers often employ use cases to specify what should be performed by the system they're constructing. Although use case-driven analysis, design, and testing of software systems has become increasingly popular, little has been written on the role of use cases in the complete software cycle. This book fills that need by describing how to create use case models for complex software development projects, using practical examples to explain conceptual information. The authors extend the work of software visionary Ivar Jacobson, using the Unified Modeling Language (UML) as the notation to describe the book's models. Aimed primarily at software professionals, Advanced Use Case Modeling also includes information that relates use case technique to business processes. This book presents a process for creating and maintaining use case models in a framework that can be fully customized for your organization. The authors, pioneers in the application of use cases in software development, bring their extensive experience to cover topics such as: A process model for applying a use case model How to keep your use case modeling effort on track Tips and pitfalls in use case modeling How to organize your use case model for large-system development Similarities between Advanced Use Case Modeling and the Rational Unified Process framework Effect of use cases on user interface design Guidelines for quality use case modeling

Use Cases effektiv erstellen Jun 21 2022 Alistair Cockburn beschreibt ausführlich, was Uses Cases sind, welche Bestandteile hineingehören und wie man sie strukturieren sollte. Besonders nützlich sind seine Erörterungen, wie man mit großen Mengen von Use Cases umgeht. Im zweiten Teil seines Buchs geht Cockburn auf verschiedene praktische Probleme ein. Es geht um Fragen wie "Woran erkennen wir, dass wir fertig sind?" oder "Wie fügen sich Use Cases in den Gesamtprozess ein?". Im dritten Teil werden die wichtigsten Themen noch einmal als knappe Referenz zusammengefasst.

Encyclopedia of Software Engineering Three-Volume Set (Print) Jul 10 2021 Software engineering requires specialized knowledge of a broad spectrum of topics, including the construction of software and the platforms, applications, and environments in which the software operates as well as an understanding of the people who build and use the software. Offering an authoritative perspective, the two volumes of the Encyclopedia of Software

Engineering cover the entire multidisciplinary scope of this important field. More than 200 expert contributors and reviewers from industry and academia across 21 countries provide easy-to-read entries that cover software requirements, design, construction, testing, maintenance, configuration management, quality control, and software engineering management tools and methods. Editor Phillip A. Laplante uses the most universally recognized definition of the areas of relevance to software engineering, the Software Engineering Body of Knowledge (SWEBOK®), as a template for organizing the material. Also available in an electronic format, this encyclopedia supplies software engineering students, IT professionals, researchers, managers, and scholars with unrivaled coverage of the topics that encompass this ever-changing field. Also Available Online This Taylor & Francis encyclopedia is also available through online subscription, offering a variety of extra benefits for researchers, students, and librarians, including: Citation tracking and alerts Active reference linking Saved searches and marked lists HTML and PDF format options Contact Taylor and Francis for more information or to inquire about subscription options and print/online combination packages. US: (Tel) 1.888.318.2367; (E-mail) e-reference@taylorandfrancis.com International: (Tel) +44 (0) 20 7017 6062; (E-mail) online.sales@tandf.co.uk

Software Engineering for Students Oct 13 2021 This guide explains the challenges that large software projects present. It explains the different techniques and tools that are used and provides an introduction to software engineering.

Case Approach to Counseling and Psychotherapy Aug 11 2021 With this acclaimed casebook, readers follow master teacher Gerald Corey and many of contemporary therapy's most highly respected founders and practitioners--including William Glasser, Arnold Lazarus, and Albert Ellis--as they apply eleven key counseling approaches to the needs of client Ruth. This focus on a single client demonstrates to readers how the various theories work, and also enables them to see exactly how these techniques differ. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Software requirements Jan 16 2022 Nicht wenige Software-Projekte erreichen ihre gesteckten Ziele nicht, da bereits in ihrer Anfangsphase Anforderungen an die Software nicht gründlich genug analysiert und dokumentiert wurden. Oft wird auch vernachlässigt, dass Softwareentwicklung genauso viel mit Kommunikation, wie mit eigentlicher Entwicklungsarbeit zu tun hat. An diesem Punkt setzt dieser Klassiker der Softwareentwicklungsliteratur an, in dem überzeugend präsentiert wird, warum die Erhebung, Zusammenstellung und das Managen von Software Requirements essentiell für erfolgreiche Projekte ist und mit welchen erprobten Mitteln diese Aufgaben am besten zu meistern sind. Karl Wieggers zeigt damit, wie Requirements-Analysten, Projektleiter, aber auch alle Programmierer und Designer, die Anforderungen der Kunden umsetzen müssen, Produktivität, Termintreue, Kundenzufriedenheit und Wartungs- und Supportkosten mit dem im Buch beschriebenen Praktiken drastisch verbessern können. - Realistische Erwartungen für Funktionalität und Qualität setzen - Geschäftsregeln in die Anwendungsentwicklung integrieren - Anwendungsfälle zur Definition von Benutzeranforderungen verwenden - Unausgesprochene und wechselnde Requirements identifizieren und managen - Revisionen einschränken und damit Kosten sparen - Besser Software produzieren

Software Engineering with Computational Intelligence Oct 21 2019 It is not an exaggeration to view Professor Lee's book, "Software Engineering with Computational Intelligence," or SECI for short, as a pioneering contribution to software engineering. Breaking with the tradition of treating uncertainty, imprecision, fuzziness and vagueness as issues of peripheral importance, SECI moves them much closer to the center of the stage. It is obvious, though still not widely accepted, that this is where these issues should be, since the real world is much too complex and much too ill-defined to lend itself to categorical analysis in the Cartesian spirit. As its title suggests, SECI employs the machineries of computational intelligence (CI) and, more or less equivalently, soft computing (SC), to deal with the foundations and principal issues in software engineering. Basically, CI and SC are consortia of methodologies which collectively provide a body of concepts and techniques for conception, design, construction and utilization of intelligent systems. The principal constituents of CI and SC are fuzzy logic, neurocomputing, evolutionary computing, probabilistic computing, chaotic computing and machine learning. The leitmotif of CI and SC is that, in general, better performance can be achieved by employing the constituent methodologies of CI and SC in combination rather than in a stand-alone mode. In what follows, I will take the liberty of focusing my attention on fuzzy logic and fuzzy set theory, and on their roles in software engineering. But first, a couple of points of semantics which are in need of clarification.

The Case Approach to Financial Planning Sep 12 2021

The Use Case and Smart Grid Architecture Model Approach Mar 18 2022 This book introduces readers to the fundamentals of the IEC 62559 Use Case Methodology, explains how it is related to the Smart Grid Architecture Model (SGAM), and details how a holistic view for both architecture and requirements engineering can be achieved. It describes a standardized and holistic approach to requirements engineering for smart grid projects based on work conducted in the context of the EU M/490 standardization mandate. Over the last years, this method has been established in Europe as the basic building block of requirements engineering in the utilities sector. The authors present a canonical, structured approach that users can apply to the Use Case Methodology and the SGAM, as well as open tools for this purpose. The application in various domains outside the smart grid is also discussed, as it can be used for critical infrastructures or system-of-systems domains like Industrie 4.0 and Ambient Assisted Living. Accordingly, the book also presents various architecture models for different fields of application, like EMAM, SCIAM, RAMI 4.0, and MAF.

An Integrated Approach to Software Engineering Apr 07 2021 Details the different activities of software development with a case-study approach whereby a project is developed through the course of the book The sequence of chapters is essentially the same as the sequence of activities performed during a typical software project.

Essential Software Testing Nov 02 2020 A Practical Guide to Software Testing Much has been written about the difficulty of software testing. Often these laments are accompanied by cautionary words about how careful one has to be to ensure testing is done properly. However, there is a dearth of resources that give practical guidance on the nuts and bolts of testing. *Essential Software Testing: A Use-Case Approach* describes testing methods and techniques in a common sense manner that is easy to understand, helping readers to quickly and effectively implement project-specific testing solutions. Divided into three parts, the book first discusses ways to make testing agile, providing insight into how testing can be done efficiently in different process environments. Next, the book supplies an overview of testing concepts. Lastly, it demonstrates how to perform the actual test, detailing specific testing activities that can be used on almost any project, with specific attention given to use-case driven testing. It describes how to test using Use Cases regardless of the specific requirements of the project. The author weaves helpful war stories throughout the text, placing the concepts in a concrete framework. This guide gives software testers a firm grasp of all testing fundamentals: how to determine what to test and how to test it, how to select proper tests to match the plan, techniques to build and trace tests, and finally, how to conduct and record tests.

Scenarios, Stories, Use Cases Dec 15 2021 Extending the scenario method beyond interface design, this important book shows developers how to design more effective systems by soliciting, analyzing, and elaborating stories from end-users Contributions from leading industry consultants and opinion-makers present a range of scenario techniques, from the light, sketchy, and agile to the careful and systematic Includes real-world case studies from Philips, DaimlerChrysler, and Nokia, and covers systems ranging from custom software to embedded hardware-software systems

The Advanced Smart Grid: Edge Power Driving Sustainability, Second Edition Aug 19 2019 Placing emphasis on practical "how-to" guidance, this cutting-edge resource provides a first-hand, insider's perspective on the advent and evolution of smart grids in the 21st century. This book presents engineers, researchers, and students with the building blocks that comprise basic smart grids, including power plant, transmission substation, distribution, and meter automation. Moreover, this forward-looking volume explores the next step of this technology's evolution. It provides a detailed explanation of how an advanced smart grid incorporates demand response with smart appliances and management mechanisms for distributed generation, energy storage, and electric vehicles. This updated second edition focuses on the disruptive impact of DER. This new edition also includes a glossary with well over 100 acronyms and terms, acknowledging the tremendous challenge for a student of smart energy and smart grid to grasp this complex industry.

Applying UML Jun 09 2021 Unified Modeling Language (UML) is a general-purpose notation language for specifying and visualizing complex software, especially large, object-oriented projects. Object-oriented programming is when a programmer defines not only the data type of a data structure, but also the types of operations/functions that can be applied to the data structure. *Applying UML* addresses the practical issues faced by users in adopting UML. As the title suggests, it helps the reader in actually applying UML to real life situations, rather than just in learning the language. The book covers in depth detail of UML, including notation on profiles and extensions. The scope of the

book assumes prior experience in software engineering and/or business modeling, an understanding of object-oriented concepts and a basic knowledge of UML. * Case study driven approach covering a wide range of issues * Contains advanced tutorial material to aid learning * Focuses on practical issues in the application of UML

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