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Social Modeling for Requirements Engineering Requirements Modeling And Coding: An Object-oriented Approach System Requirements Engineering Environment Modeling-Based Requirements Engineering for Software Intensive Systems Requirements Engineering Use Cases Visual Models for Software Requirements Use Case Modeling Requirements Engineering Requirements Analysis Software & Systems Requirements Engineering: In Practice From Requirements to Java in a Snap Integrated Requirements Modeling Advanced Use Case Modeling Requirements Engineering Requirements Engineering for Software and Systems Foundations of Software and System Performance Engineering Conceptual Modeling - ER 2009 Managing Systems Requirements Requirements Modelling and Specification for Service Oriented Architecture Engineering and Managing Software Requirements Discovering Requirements Model-Based Design for Effective Control System Development Requirements Engineering and Rapid Development Modelling and Quality in Requirements Engineering Models in Software Engineering Process for System Architecture and Requirements Engineering The Engineering Design of Systems Managing Software Requirements the Agile Way SYSMOD - The Systems Modeling Toolbox - Pragmatic MBSE with SysML Modeling and Analysis of Enterprise and Information Systems From Requirements to Java in a Snap Conceptual Modeling – ER 2011 Requirements in Engineering Projects Aspect-Oriented Requirements Engineering Managing Software Requirements: A Use Case Approach, 2/E Requirements Engineering for Software and Systems Visual Modeling with Rational Software Architect and UML Models in Software Engineering Perspectives on Software Requirements

Social Modeling for Requirements Engineering

2011

this book describes a modeling approach called the i framework that conceives of software based information systems as being situated in environments in which social actors relate to each other in terms of goals to be achieved tasks to be performed and resources to be furnished

Requirements Modeling And Coding: An Object-oriented Approach

2020-10-20

requirements modeling and coding attempts to bridge the gap between modeling and coding and serves the growing trend of agile development better than existing textbooks in the area instead of using toy tools to create modeling and coding examples the author teaches ibm rational rhapsody as a modeling tool and microsoft visual c as a programming tool c is the purest object oriented programming language and the best tool for developing graphical user interfaces while rhapsody is a visual development environment that real software developers use to create real time or embedded systems this book serves as a text for a capstone course on systems analysis and design in information systems programs it conceptualizes business objects and functions develops business models and software architectures and enriches the models and the architectures by storyboarding use cases along with user interface designs instructor s resources are provided for free to instructors who adopt the book as textbook please send your request to sales wspc com

System Requirements Engineering

2020-07-16

the book deals with requirements engineering in the context of system engineering he proposes a method to guide this activity engineering the method is supported by the sysml modeling language a first chapter aims to present the context and the associated definitions to position the requirements engineering in the processes system engineering to define the modeling and its contributions and to make the link with the management of is projects the second chapter is devoted to the proposed method for implementing the requirements engineering subprocesses each of the 8 activities the component is first described before specifying how the sysml language can be exploited to achieve it effectively proposal for a book please fill out the questionnaire below and send it back to chantal menascé c menasce iste co uk the 3rd chapter is an application of the method to define the needs of the stakeholders of a system the example is built on the basis of the robafis 2018 competition the 4th chapter continues the application of the method in the continuity of the is processes to define the requirements of the same system the appendices present at the same time a toolbox to realize the engineering of the requirements but also the complete results of engineering in chapters 3 and 4

Environment Modeling-Based Requirements Engineering for Software Intensive Systems

2017-12-14

environment modeling based requirements engineering for software intensive systems provides a new and promising approach for engineering the requirements of software intensive systems presenting a systematic promising approach to identifying clarifying modeling deriving and validating the requirements of software intensive systems from well modeled environment simulations in addition the book presents a new view of software capability i e the effect based software capability in terms of environment modeling provides novel and systematic methodologies for engineering the requirements of software intensive systems describes ontologies and easily understandable notations for modeling software intensive systems analyzes the functional and non functional requirements based on the properties of the software surroundings provides an essential practical guide and formalization tools for the task of identifying the requirements of software intensive systems gives system analysts and requirements engineers insight into how to recognize and structure the problems of

developing software intensive systems

Requirements Engineering

2009-02-09

essential comprehensive coverage of the fundamentals of requirements engineering requirements engineering re deals with the variety of prerequisites that must be met by a software system within an organization in order for that system to produce stellar results with that explanation in mind this must have book presents a disciplined approach to the engineering of high quality requirements serving as a helpful introduction to the fundamental concepts and principles of requirements engineering this guide offers a comprehensive review of the aim scope and role of requirements engineering as well as best practices and flaws to avoid shares state of the art techniques for domain analysis requirements elicitation risk analysis conflict management and more features in depth treatment of system modeling in the specific context of engineering requirements presents various forms of reasoning about models for requirements quality assurance discusses the transitions from requirements to software specifications to software architecture in addition case studies are included that complement the many examples provided in the book in order to show you how the described method and techniques are applied in practical situations

Use Cases

2012-03-30

this book describes how to gather and define software requirements using a process based on use cases it shows systems analysts and designers how use cases can provide solutions to the most challenging requirements issues resulting in effective quality systems that meet the needs of users use cases second edition requirements in context describes a three step method for establishing requirements an iterative process that produces increasingly refined requirements drawing on their extensive real world experience the authors offer a wealth of advice on use case driven lifecycles planning for change and keeping on track in addition they include numerous detailed examples to illustrate practical applications this second edition incorporates the many advancements in use case methodology that have occurred over the past few years specifically this new edition features major changes to the methodology s iterations and the section on management reflects the faster paced more chaordic software lifecycles prominent today in addition the authors have included a new chapter on use case traceability issues and have revised the appendixes to show more clearly how use cases evolve the book opens with a brief introduction to use cases and the unified modeling language uml it explains how use cases reduce the incidence of duplicate and inconsistent requirements and how they facilitate the documentation process and communication among stakeholders the book shows you how to describe the context of relationships and interactions between actors and applications using use case diagrams and scenarios specify functional and nonfunctional requirements create the candidate use case list break out detailed use cases and add detail to use case diagrams add triggers preconditions basic course of events and exceptions to use cases manage the iterative incremental use case driven project lifecycle trace back to use cases nonfunctionals and business rules avoid classic mistakes and pitfalls the book also highlights numerous currently available tools including use case name filters the context matrix user interface requirements and the authors own hierarchy killer

Visual Models for Software Requirements

2012-07-15

apply best practices for capturing analyzing and implementing software requirements through visual models and deliver better results for your business the authors experts in eliciting and visualizing requirements walk you through a simple but comprehensive language of visual models that has been used on hundreds of real world large scale projects build your fluency with core concepts and gain essential scenario based context and implementation advice as you progress through each chapter transcend the limitations of text based requirements data using visual models that more rigorously identify capture and validate requirements get real world guidance on best ways to use visual models how and when and ways to combine them for best project

outcomes practice the book s concepts as you work through chapters change your focus from writing a good requirement to ensuring a complete system

Use Case Modeling

2003

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

Requirements Engineering

2009

thousands of software projects are doomed because they re based on a faulty understanding of the business problem that needs to be solved requirements analysis from business views to architectureis the solution david c hay brings together the world s best requirements analysis practices from two key viewpoints system development life cycle and architectural framework hay teaches you the complete process of defining an architecture from a full understanding of what business people need to the creation of a complete enterprise architecture

Requirements Analysis

2003

proven software systems requirements engineering techniques requirements engineering is a discipline used primarily for large and complex applications it is more formal than normal methods of gathering requirements and this formality is needed for many large applications the authors are experienced requirements engineers and this book is a good compendium of sound advice based on practical experience capers jones chief scientist emeritus software productivity research deliver feature rich products faster cheaper and more reliably using state of the art ssre methods and modeling procedures written by global experts software systems requirements engineering in practice explains how to effectively manage project objectives and user needs across the entire development lifecycle gather functional and quality attribute requirements work with models perform system tests and verify compliance you will also learn how to mitigate risks avoid requirements creep and sidestep the pitfalls associated with large complex projects define and prioritize customer expectations using taxonomies elicit and analyze functional and quality attribute requirements develop artifact models meta models and prototypes manage platform and product line development requirements derive and generate test cases from uml activity diagrams deploy validation verification and rapid development procedures handle re for globally distributed software and system development projects perform hazard analysis risk assessment and threat modeling

Software & Systems Requirements Engineering: In Practice

2009-03-03

this book provides a coherent methodology for model driven requirements engineering which stresses the systematic treatment of requirements within the realm of modelling and model transformations the underlying basic assumption is that detailed requirements models are used as first class artefacts playing a direct role in constructing software to this end the book presents the requirements specification language rsl that allows precision and formality which eventually permits automation of the process of turning requirements into a working system by applying model transformations and code generation to rsl the book is structured in eight chapters the first two chapters present the main concepts and give an introduction to requirements modelling in rsl the next two chapters concentrate on presenting rsl in a formal way suitable for automated processing subsequently chapters 5 and 6 concentrate on model transformations with the emphasis on those involving rsl

and uml finally chapters 7 and 8 provide a summary in the form of a systematic methodology with a comprehensive case study presenting technical details of requirements modelling and model transformations for requirements this book is of interest to researchers graduate students and advanced practitioners from industry while researchers will benefit from the latest results and possible research directions in mdre students and practitioners can exploit the presented information and practical techniques in several areas including requirements engineering architectural design software language construction and model transformation together with a tool suite available online the book supplies the reader with what it promises the means to get from requirements to code in a snap

From Requirements to Java in a Snap

2015-01-14

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

Integrated Requirements Modeling

2008

an analysis of product development systems product development requirements specifications requeriments engineering methods isac change analysis and activity study information strategy planning the entity relationship approach i models the entity relationiship approach ii methods structured analysis i models structured analysis ii methods jackson system development i models jackson system development ii methods method integration and strategy selection a framework for requirements engineering i models a framework for requirements engineering ii methods development strategies selecting a development strategy answers to select exercises cases an outline of some development methods

Advanced Use Case Modeling

2000-12-29

solid requirements engineering has increasingly been recognized as the key to improved on time and on budget delivery of software and systems projects new software tools are emerging that are empowering practicing engineers to improve their requirements engineering habits however these tools are not usually easy to use without significant training requirements engineering for software and systems fourth edition is intended to provide a comprehensive treatment of the theoretical and practical aspects of discovering analyzing modeling validating testing and writing requirements for systems of all kinds with an intentional focus on software intensive systems it brings into play a variety of formal methods social models and modern requirements

writing techniques to be useful to practicing engineers the book is intended for professional software engineers systems engineers and senior and graduate students of software or systems engineering since the first edition there have been made many changes and improvements to this textbook feedback from instructors students and corporate users was used to correct expand and improve the materials the fourth edition features two newly added chapters on non functional requirements and requirements engineering road map to the future the latter provides a discussion on the relationship between requirements engineering and such emerging and disruptive technologies as internet of things cloud computing blockchain artificial intelligence and affective computing all chapters of the book were significantly expanded with new materials that keep the book relevant to current industrial practices readers will find expanded discussions on new elicitation techniques agile approaches e g kanpan safe and devops requirements tools requirements representation risk management approaches and functional size measurement methods the fourth edition also has significant additions of vignettes exercises and references another new feature is scannable qr codes linked to sites containing updates tools videos and discussion forums to keep readers current with the dynamic field of requirements engineering

Requirements Engineering

1996-05-03

this book constitutes the refereed proceedings of the 28th international conference on conceptual modeling er 2009 held in gramado brazil in november 2009 the 31 revised full papers presented together with 18 demo papers were carefully reviewed and selected from 162 submissions the papers are organized in topical sections on conceptual modeling requirements engineering query approaches space and time modeling schema matching and integration application contexts process and service modeling and industrial session

Requirements Engineering for Software and Systems

2022-06-07

here is the first book to offer a practical way to identify systems requirements and manage them when budgets and schedules are tight it describes a process that leads from fuzzy ill defined requirements to requirements that can be modeled and prototyped managing systems requirements presents methods for communicating requirements and achieving buy in from system users and owners before expensive programming begins there are techniques tools and software suggestions for project managers and systems analysts plus case studies that illustrate how the whole requirements gathering process works the cornerstone of the book is its practicality it combines in one place a suite of methods templates off the shelf computer based tools and real world examples that software developers can use to get a handle on software requirements and solve the problems they face every day on the job is managers system project managers systems analysts and programmers will find the book indispensable and value how it integrates technical methods with organizational realities

Foundations of Software and System Performance Engineering

2014

many software developers often confuse requirements engineering with software specification and as a result build unusable systems despite meeting specifications bringing together all the techniques needed by the modern software developer here is a practical handbook to requirements engineering and systems specification for developers building systems within a service oriented architecture it introduces the concepts of soa and relevant standards and technology such as services and esbs and then presents a range of modern requirements engineering techniques

Conceptual Modeling - ER 2009

2009-10-26

requirements engineering is the process by which the requirements for software systems are gathered analyzed documented and managed throughout their complete lifecycle traditionally it has been concerned with technical

goals for functions of and constraints on software systems aurum and wohlin however argue that it is no longer appropriate for software systems professionals to focus only on functional and non functional aspects of the intended system and to somehow assume that organizational context and needs are outside their remit instead they call for a broader perspective in order to gain a better understanding of the interdependencies between enterprise stakeholders processes and software systems which would in turn give rise to more appropriate techniques and higher quality systems following an introductory chapter that provides an exploration of key issues in requirements engineering the book is organized in three parts part 1 presents surveys of state of the art requirements engineering process research along with critical assessments of existing models frameworks and techniques part 2 addresses key areas in requirements engineering such as market driven requirements engineering goal modeling requirements ambiguity and others part 3 concludes the book with articles that present empirical evidence and experiences from practices in industrial projects its broader perspective gives this book its distinct appeal and makes it of interest to both researchers and practitioners not only in software engineering but also in other disciplines such as business process engineering and management science

Managing Systems Requirements

1996

this book is not only of practical value it s also a lot of fun to read michael jackson the open university do you need to know how to create good requirements discovering requirements offers a set of simple robust and effective cognitive tools for building requirements using worked examples throughout the text it shows you how to develop an understanding of any problem leading to questions such as what are you trying to achieve who is involved and how what do those people want do they agree how do you envisage this working what could go wrong why are you making these decisions what are you assuming the established author team of ian alexander and ljerka beus dukic answer these and related questions using a set of complementary techniques including stakeholder analysis goal modelling context modelling storytelling and scenario modelling identifying risks and threats describing rationales defining terms in a project dictionary and prioritizing this easy to read guide is full of carefully checked tips and tricks illustrated with worked examples checklists summaries keywords and exercises this book will encourage you to move closer to the real problems you re trying to solve guest boxes from other experts give you additional hints for your projects invaluable for anyone specifying requirements including it practitioners engineers developers business analysts test engineers configuration managers quality engineers and project managers a practical sourcebook for lecturers as well as students studying software engineering who want to learn about requirements work in industry once you ve read this book you will be ready to create good requirements

Requirements Modelling and Specification for Service Oriented Architecture

2008-12-03

control systems are an integral aspect of modern society and exist across numerous domains and applications as technology advances more and more the complexity of such systems continues to increase exponentially model based design for effective control system development is a critical source of scholarly information on model centric approaches and implementations for control and other similar dynamic systems highlighting innovative topics such as configuration management controllability analysis and modeling requirements this book is ideally designed for engineers researchers academics project managers and professionals interested in the design of embedded control systems

Engineering and Managing Software Requirements

2006-04-07

presents a practical object oriented modelling approach that provides software developers with a single technique with which to model all aspects of the modern business from the organizational mission right through to user performance and business objectives

Discovering Requirements

2009-02-11

modeling and quality in requirements engineering is the festschrift dedicated to martin glinz on the occasion of his 60th birthday colleagues and friends have sent contributions to honor his achievements in the field of software and requirements engineering the contributions address specific topics in martin s main research areas of modeling and quality in requirements engineering examples include risk driven requirements engineering non functional requirements and lightweight requirements modeling furthermore they cover related topics such as quality of business processes soa process modeling and testing reminiscences and congratulations from fellow researchers and friends conclude the festschrift back of book

Model-Based Design for Effective Control System Development

2017-03-10

this book presents a comprehensive documentation of the scientific outcome of 14 satellite events held at the 13th international conference on model driven engineering languages and systems models 2010 held in oslo norway in october 2010 besides the 21 revised best papers selected from 12 topically focused workshops the post proceedings also covers the doctoral symposium and the educators symposium each of the 14 satellite events covered is introduced by a summary of the respective organizers all relevant current aspects in model based systems design and analysis are addressed this book is the companion of the models 2010 main conference proceedings lncs 6394 6395

Requirements Engineering and Rapid Development

1998

this is the digital version of the printed book copyright 2000 derek hatley and imtiaz pirbhai authors of strategies for real time system specification join with influential consultant peter hruschka to present a much anticipated update to their widely implemented hatley pirbhai methods process for system architecture and requirements engineering introduces a new approach that is particularly useful for multidisciplinary system development it applies equally well to all technologies and thereby provides a common language for developers in widely differing disciplines the hatley pirbhai hruschka approach h h p has another important feature the coexistence of the requirements and architecture methods and of the corresponding models they produce these two models are kept separate but the approach fully records their ongoing and changing interrelationships this feature is missing from virtually all other system and software development methods and from case tools that only automate the requirements model system managers system architects system engineers and managers and engineers in all of the diverse engineering technologies will benefit from this comprehensive pragmatic text in addition to its models of requirements and architecture and of the development process itself the book uses in depth case studies of a hospital monitoring system and of a multidisciplinary groundwater analysis system to illustrate the principles compatibility between the h h p methods and the uml the hatley pirbhai architecture and requirements methods described in strategies for real time system specification have been widely used for almost two decades in system and software development now known as the hatley hruschka pirbhai h h p methods they have always been compatible with object oriented software techniques such as the uml by defining architectural elements as classes objects messages inheritance relationships and so on in process for system architecture and requirements engineering that compatibility is made more specific through the addition of message diagrams inheritance diagrams and new notations that go with them in addition state charts while never excluded are now specifically included as a representation of sequential machines these additions make definition of the system software boundary even more straightforward while retaining the clear separation of requirements and design at the system levels that is a hallmark of the h h p methods not shared by most oo techniques once the transition to software is made the developer is free to continue using the h h p methods or to use the uml or any other software specific technique

Modelling and Quality in Requirements Engineering

2012

new for the third edition chapters on complete exercise of the se process system science and analytics and the value of systems engineering the book takes a model based approach to key systems engineering design activities and introduces methods and models used in the real world this book is divided into three major parts 1 introduction overview and basic knowledge 2 design and integration topics 3 supplemental topics the first part provides an introduction to the issues associated with the engineering of a system the second part covers the critical material required to understand the major elements needed in the engineering design of any system requirements architectures functional physical and allocated interfaces and qualification the final part reviews methods for data process and behavior modeling decision analysis system science and analytics and the value of systems engineering chapter 1 has been rewritten to integrate the new chapters and updates were made throughout the original chapters provides an overview of modeling modeling methods associated with sysml and idef0 includes a new chapter 12 that provides a comprehensive review of the topics discussed in chapters 6 through 11 via a simple system an automated soda machine features a new chapter 15 that reviews general system theory systems science natural systems cybernetics systems thinking quantitative characterization of systems system dynamics constraint theory and fermi problems and guesstimation includes a new chapter 16 on the value of systems engineering with five primary value propositions systems as a goal seeking system systems engineering as a communications interface systems engineering to avert showstoppers systems engineering to find and fix errors and systems engineering as risk mitigation the engineering design of systems models and methods third edition is designed to be an introductory reference for professionals as well as a textbook for senior undergraduate and graduate students in systems engineering

Models in Software Engineering

2011-05-13

learn how to deliver software that meets your clients needs with the help of a structured end to end methodology for managing software requirements and building suitable systems key featureslearn how to communicate with a project s stakeholders to elicit software requirementsdeal every phase of the requirement life cycle with pragmatic methods and techniquesmanage the software development process and deliver verified requirements using scrum and kanbanbook description difficulty in accurately capturing and managing requirements is the most common cause of software project failure learning how to analyze and model requirements and produce specifications that are connected to working code is the single most fundamental step that you can take toward project success this book focuses on a delineated and structured methodology that will help you analyze requirements and write comprehensive verifiable specifications you ll start by learning about the different entities in the requirements domain and how to discover them based on customer input you ll then explore tried and tested methods such as impact mapping and behavior driven development bdd along with new techniques such as d3 and feature first development this book takes you through the process of modeling customer requirements as impact maps and writing them as executable specifications you ll also understand how to organize and prioritize project tasks using agile frameworks such as kanban and scrum and verify specifications against the delivered code finally you ll see how to start implementing the requirements management methodology in a real life scenario by the end of this book you ll be able to model and manage requirements to create executable specifications that will help you deliver successful software projects what you will learnkick start the requirements gathering and analysis process in your first meeting with the clientaccurately define system behavior as featuresmodel and describe requirement entities using impact mapping and bddcreate a feature based product backlog and use it to drive software developmentwrite verification code to turn features into executable specificationsdeliver the right software and respond to change using either scrum or kanbanchoose appropriate software tools to provide transparency and traceability to your clientswho this book is for this book is for software engineers business analysts product managers project managers and software project stakeholders looking to learn a variety of techniques and methodologies for collating accurate software requirements a fundamental understanding of the software development life cycle sdlc is needed to get started with this book although not necessary basic knowledge of the agile philosophy and practices such as scrum along with some programming experience will help you to get the most out of this book

Process for System Architecture and Requirements Engineering

2013-08-02

sysmod is an mbse toolbox for pragmatic modeling of systems it is well suited to be used with sysml the book provides a set of methods with roles and outputs concrete guidances and examples show how to apply the methods with sysml requirements modeling system context use cases functional physical logical and product architectures guidances how to create a sysml model full fledged sysml example complete definition of a profile for sysmod this book is also available as an ebook at leanpub com sysmod

The Engineering Design of Systems

2016-02-04

modeling and analysis of enterprise and information systems from requirements to realization discusses the basic principles of enterprise architecture and enterprise modeling after an introduction to the field the general enterprise modeling architecture is presented the new architecture includes a set of models and methods it describes different aspects of the system and covers its life cycle its models are structuralized models with multi layers and multi views they are descriptions and cognitions of the system at the top level and provide tools and methodology to understand design develop and implement the system this book is intended for researchers and graduate students in the field of industrial engineering management engineering and information engineering enterprise models discussed in this book provide a rich source in enterprise diagnosis business process reengineering and information system implementation dr qing li and prof yu liu chen both teach at the department of automation tsinghua university

Managing Software Requirements the Agile Way

2020-08-14

this book constitutes the refereed proceedings of the 30th international conference on conceptual modeling er 2011 held in brussels belgium in october november 2011 the 25 revised full papers presented together with 14 short papers and three keynotes were carefully reviewed and selected from 157 submissions the papers are organized in topical sections on modeling goals and compliance human and socio technical factors ontologies data model theory model development and maintainability user interfaces and software classification evolution propagation and refinement uml and requirements modeling views queries and search requirements and business intelligence mda and ontology based modeling process modeling panels

SYSMOD - The Systems Modeling Toolbox - Pragmatic MBSE with SysML

2016-12-03

this book focuses on various topics related to engineering and management of requirements in particular elicitation negotiation prioritisation and documentation whether with natural languages or with graphical models the book provides methods and techniques that help to characterise in a systematic manner the requirements of the intended engineering system it was written with the goal of being adopted as the main text for courses on requirements engineering or as a strong reference to the topics of requirements in courses with a broader scope it can also be used in vocational courses for professionals interested in the software and information systems domain readers who have finished this book will be able to establish and plan a requirements engineering process within the development of complex engineering systems define and identify the types of relevant requirements in engineering projects choose and apply the most appropriate techniques to elicit the requirements of a given system conduct and manage negotiation and prioritisation processes for the requirements of a given engineering system document the requirements of the system under development either in natural language or with graphical and formal models each chapter includes a set of exercises

Modeling and Analysis of Enterprise and Information Systems

2011-09-18

broadly scoped requirements such as security privacy and response time are a major source of complexity in modern software systems this is due to their tangled inter relationships with and effects on other requirements aspect oriented requirements engineering aore aims to facilitate modularisation of such broadly scoped requirements so that software developers are able to reason about them in isolation one at a time aore also captures these inter relationships and effects in well defined composition specifications and in so doing exposes the causes for potential conflicts trade offs and roots for the key early architectural decisions over the last decade significant work has been carried out in the field of aore with this book the editors aim to provide a consolidated overview of these efforts and results the individual contributions discuss how aspects can be identified represented composed and reasoned about as well as how they are used in specific domains and in industry thus the book does not present one particular aore approach but conveys a broad understanding of the aspect oriented perspective on requirements engineering the chapters are organized into five sections concern identification in requirements concern modelling and composition domain specific use of aore aspect interactions and aore in industry this book provides readers with the most comprehensive coverage of aore and the capabilities it offers to those grappling with the complexity arising from broadly scoped requirements a phenomenon that is without doubt universal across software systems software engineers and related professionals in industry as well as advanced undergraduate and post graduate students and researchers will benefit from these comprehensive descriptions and the industrial case studies

From Requirements to Java in a Snap

2015-02-28

solid requirements engineering has increasingly been recognized as the key to improved on time and on budget delivery of software and systems projects this textbook provides a comprehensive treatment of the theoretical and practical aspects of discovering analyzing modeling validating testing and writing requirements for systems of all kinds with an intentional focus on software intensive systems it brings into play a variety of formal methods social models and modern requirements for writing techniques to be useful to the practicing engineer this book was written to support both undergraduate and graduate requirements engineering courses each chapter includes simple intermediate and advanced exercises advanced exercises are suitable as a research assignment or independent study and are denoted by an asterisk various exemplar systems illustrate points throughout the book and four systems in particular a baggage handling system a point of sale system a smart home system and a wet well pumping system are used repeatedly these systems involve application domains with which most readers are likely to be familiar and they cover a wide range of applications from embedded to organic in both industrial and consumer implementations vignettes at the end of each chapter provide mini case studies showing how the learning in the chapter can be employed in real systems requirements engineering is a dynamic field and this text keeps pace with these changes since the first edition of this text there have been many changes and improvements feedback from instructors students and corporate users of the text was used to correct expand and improve the material this third edition includes many new topics expanded discussions additional exercises and more examples a focus on safety critical systems where appropriate in examples and exercises has also been introduced discussions have also been added to address the important domain of the internet of things another significant change involved the transition from the retired ieee standard 830 which was referenced throughout previous editions of the text to its successor the iso iec ieee 29148 standard

Conceptual Modeling – ER 2011

2011-10-12

terry s style is always direct approachable and pragmatic abstraction is hard and visualizing abstractions is as well but here she ll guide you in doing both using rational software architect from the foreword by grady booch ibm fellow master uml 2 0 visual modeling with ibm rational software architect using ibm rational software architect you can unify all aspects of software design and development it allows you to exploit new modeling language technology to architect systems more effectively and develop them more productively now two of ibm

s leading experts have written the definitive start to finish guide to uml 2 based visual modeling with rational software architect you ll learn hands on using a simplified case study that s already helped thousands of professionals master analysis design and implementation with ibm rational technologies renowned uml expert terry quatrani and j2ee soa evangelist jim palistrant walk you through visualizing all facets of system architecture at every stage of the project lifecycle whether you re an architect developer or project manager you ll discover how to leverage ibm rational s latest innovations to optimize any project coverage includes making the most of model driven development with rational software architect s integrated design and development tools understanding visual modeling goals techniques language and processes beginning any visual modeling project sound principles and best practices capturing and documenting functional requirements with use case models creating analysis models that begin to reveal your optimal system implementation building design models that abstract your implementation model and source code using implementation models to represent your system s physical composition from subsystems to executables and data transforming these models to actual running code the ibm press developerworks series is a unique undertaking in which print books and the are mutually supportive the publications in this series are complemented by resources on the developerworks site on ibm com icons throughout the book alert the reader to these valuable resources

Requirements in Engineering Projects

2015-07-18

this book constitutes the thoroughly refereed post workshop proceedings of 10 internationl workshops and 2 symposia held as satellite events of the 10th international conference on model driven engineering languages and systems models 2007 in nashville tn usa in september october 2007 see lncs 4735 the 29 revised full papers were carefully selected for inclusion in the book and are presented along with a doctoral and an educators symposium section the papers are organized in topical sections representing the various workshops aspect oriented modeling aom 2007 language engineering atem2007 model driven development of advanced user interfaces mddaui 2007 model size metrics msm 2007 model based design of trustworthy health information systems mothis 2007 model driven engineering verification and validation modevva 2007 modelling systems with ocl ocl4all 2007 models run time multi paradigm modeling concepts and tools mpm 2007 quality in modeling doctoral symposium and educators symposium

Aspect-Oriented Requirements Engineering

2013-11-19

perspectives on software requirements presents perspectives on several current approaches to software requirements each chapter addresses a specific problem where the authors summarize their experiences and results to produce well fit and traceable requirements chapters highlight familiar issues with recent results and experiences which are accompanied by chapters describing well tuned new methods for specific domains

Managing Software Requirements: A Use Case Approach, 2/E

2003-09

Requirements Engineering for Software and Systems

2017-10-24

Visual Modeling with Rational Software Architect and UML

2006-05-26

Models in Software Engineering

2008-06-24

Perspectives on Software Requirements

2004

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