

FUNCTIONAL vs. NON-FUNCTIONAL REQUIREMENTS

COMPARISON TABLE

Criterion	Functional Requirements	Non Functional Requirements
Objective	Specify what the digital product does	Specify the constrains and qualities of a system
End-Result	Digital product features	Digital product properties
Focus	User requirements	User experience and expectations
Documentation	Use case	Quality attribute
Origin	Specified by users	Specified by developers
Testing	UI components testing, API testing, etc.	Usability testing, performance testing, etc.
Types	Authorization, certification requirements, etc.	Response time, security, organizational design, etc.



Non Functional Requirements In Software Engineering

**Antonia Bertolino, João Pascoal
Faria, Patricia Lago, Laura Semini**



Non Functional Requirements In Software Engineering:

Non-Functional Requirements in Software Engineering Lawrence Chung, Brian A. Nixon, Eric Yu, John Mylopoulos, 2012-12-06 Non Functional Requirements in Software Engineering presents a systematic and pragmatic approach to building quality into software systems. Systems must exhibit software quality attributes such as accuracy, performance, security, and modifiability. However, such non-functional requirements (NFRs) are difficult to address in many projects, even though there are many techniques to meet functional requirements in order to provide desired functionality. This is particularly true since the NFRs for each system typically interact with each other, have a broad impact on the system, and may be subjective. To enable developers to systematically deal with a system's diverse NFRs, this book presents the NFR Framework. Structured graphical facilities are offered for stating NFRs and managing them by refining and interrelating NFRs, justifying decisions, and determining their impact. Since NFRs might not be absolutely achieved, they may simply be satisfied sufficiently. To reflect this, NFRs are represented as softgoals whose interdependencies, such as tradeoffs and synergy, are captured in graphs. The impact of decisions is qualitatively propagated through the graph to determine how well a chosen target system satisfies its NFRs. Throughout development, developers direct the process using their expertise while being aided by catalogues of knowledge about NFRs, development techniques, and tradeoffs, which can all be explored, reused, and customized. Non Functional Requirements in Software Engineering demonstrates the applicability of the NFR Framework to a variety of NFR domains, system characteristics, and application areas. This will help readers apply the Framework to NFRs and domains of particular interest to them. Detailed treatments of particular NFRs, accuracy, security, and performance requirements, along with treatments of NFRs for information systems, are presented as specializations of the NFR Framework. Case studies of NFRs for a variety of information systems include credit card and administrative systems. The use of the Framework for particular application areas is illustrated for software architecture as well as enterprise modelling. Feedback from domain experts in industry and government provides an initial evaluation of the Framework, and some case studies. Drawing on research results from several theses and refereed papers, this book's presentation, terminology, and graphical notation have been integrated and illustrated with many figures. Non Functional Requirements in Software Engineering is an excellent resource for software engineering practitioners, researchers, and students.

Nonfunctional Requirements in Mobile Application Development Varun Gupta, Raj Chopra, Durg Chauhan, 2021-04-25 Nonfunctional Requirements in Mobile Application Development is an empirical study that investigates how nonfunctional requirements, as compared with functional requirements, are treated by the software engineers during mobile application development. The book empirically analyzes the contribution of nonfunctional requirements to project parameters such as cost, time, and quality. Such parameters are of prime interest as they determine the survival of organizations in highly dynamic environments. The impact of nonfunctional requirements on project success is analyzed through surveys and case studies, both individually and

relative to each other Sources for data collection include industry academia and literature The book also empirically studies the impact of nonfunctional requirements on the overall business success of both the software development firm and the software procuring firm Project success is examined to determine if it leads to business success The book provides rich empirical evidence to place nonfunctional requirements on par with functional requirements to achieve business success in highly competitive markets This work enhances the body of knowledge through multiple empirical research methods including surveys case studies and experimentation to study software engineers focus on nonfunctional requirements at both project and business levels The book can guide both computer scientists and business managers in devising theoretical and technical solutions for software release planning to achieve business success

Non-functional Requirements in Systems Analysis and Design Kevin MacG. Adams,2015-04-23 This book will help readers gain a solid understanding of non functional requirements inherent in systems design endeavors It contains essential information for those who design use and maintain complex engineered systems including experienced designers teachers of design system stakeholders and practicing engineers Coverage approaches non functional requirements in a novel way by presenting a framework of four systems concerns into which the 27 major non functional requirements fall sustainment design adaptation and viability Within this model the text proceeds to define each non functional requirement to specify how each is treated as an element of the system design process and to develop an associated metric for their evaluation Systems are designed to meet specific functional needs Because non functional requirements are not directly related to tasks that satisfy these proposed needs designers and stakeholders often fail to recognize the importance of such attributes as availability survivability and robustness This book gives readers the tools and knowledge they need to both recognize the importance of these non functional requirements and incorporate them in the design process

Conceptual Modeling: Foundations and Applications Alex T. Borgida,Vinay Chaudhri,Paolo Giorgini,Eric Yu,2009-07-06 This Festschrift volume published in honor of John Mylopoulos on the occasion of his retirement from the University of Toronto contains 25 high quality papers written by leading scientists in the field of conceptual modeling The volume has been divided into six sections The first section focuses on the foundations of conceptual modeling and contains material on ontologies and knowledge representation The four sections on software and requirements engineering information systems information integration and web and services represent the chief current application domains of conceptual modeling Finally the section on implementations concentrates on projects that build tools to support conceptual modeling With its in depth coverage of diverse topics this book could be a useful companion to a course on conceptual modeling

Bücher-Sammlung der landwirtschaftlichen Vereins zu ... ,1857

Software Engineering: A Hands-On Approach Roger Y. Lee,2013-07-04 This textbook provides a progressive approach to the teaching of software engineering First readers are introduced to the core concepts of the object oriented methodology which is used throughout the book to act as the foundation for software engineering and programming practices and partly for the software

engineering process itself Then the processes involved in software engineering are explained in more detail especially methods and their applications in design implementation testing and measurement as they relate to software engineering projects At last readers are given the chance to practice these concepts by applying commonly used skills and tasks to a hands on project The impact of such a format is the potential for quicker and deeper understanding Readers will master concepts and skills at the most basic levels before continuing to expand on and apply these lessons in later chapters

Software Engineering: Principles and Practices, 2nd Edition Khurana Rohit, 2010 This revised edition of Software Engineering Principles and Practices has become more comprehensive with the inclusion of several topics The book now offers a complete understanding of software engineering as an engineering discipline Like its previous edition it provides an in depth coverage of fundamental principles methods and applications of software engineering In addition it covers some advanced approaches including Computer aided Software Engineering CASE Component based Software Engineering CBSE Clean room Software Engineering CSE and formal methods Taking into account the needs of both students and practitioners the book presents a pragmatic picture of the software engineering methods and tools A thorough study of the software industry shows that there exists a substantial difference between classroom study and the practical industrial application Therefore earnest efforts have been made in this book to bridge the gap between theory and practical applications The subject matter is well supported by examples and case studies representing the situations that one actually faces during the software development process The book meets the requirements of students enrolled in various courses both at the undergraduate and postgraduate levels such as BCA BE BTech BIT BIS BSc PGDCA MCA MIT MIS MSc various DOEACC levels and so on It will also be suitable for those software engineers who abide by scientific principles and wish to expand their knowledge With the increasing demand of software the software engineering discipline has become important in education and industry This thoughtfully organized second edition of the book provides its readers a profound knowledge of software engineering concepts and principles in a simple interesting and illustrative manner

Software Engineering Perspectives and Application in Intelligent Systems Radek Silhavy, Roman Senkerik, Zuzana Kominkova Oplatkova, Petr Silhavy, Zdenka Prokopova, 2016-04-26 The volume Software Engineering Perspectives and Application in Intelligent Systems presents new approaches and methods to real world problems and in particular exploratory research that describes novel approaches in the field of Software Engineering Particular emphasis is laid on modern trends in selected fields of interest New algorithms or methods in a variety of fields are also presented The 5th Computer Science On line Conference CSOC 2016 is intended to provide an international forum for discussions on the latest research results in all areas related to Computer Science The addressed topics are the theoretical aspects and applications of Computer Science Artificial Intelligences Cybernetics Automation Control Theory and Software Engineering

Engineering and Managing Software Requirements Aybüke Aurum, Claes Wohlin, 2006-04-07 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

Essentials of Software Engineering Frank Tsui, Orlando Karam, 2011 Computer Architecture Software Engineering

Elicitation of a Complete Set of Non-Functional Requirements Jörg Dörr, 2011 Requirements engineering is the first activity in engineering a softwarebased product Making mistakes in such an early phase has a strong impact on all subsequent software development phases Especially nonfunctional requirements NFRs play an important role for the success of a project or product In today s practice essential information on a system s NFRs have often not been elicited properly and are thus incomplete The NFR methodology described in this thesis provides a systematic approach for the elicitation analysis and specification of a complete set of NFRs To achieve this the NFR methodology contributes an algorithm to elicit NFRs which takes quality model information as input and systematically processes specific elements of the functional specification Checklists and tool support are used to support and partially automate the NFR methodology The NFR methodology was evaluated in a series of eight mainly industrial case studies The evaluation showed that the NFR methodology is feasible and results in a more complete set of NFRs The ratio of newly identified important NFRs ranges from over 100% to 622% In two case studies the NFR methodology application resulted in an ROI 2 and an ROI 17 respectively FUNDAMENTALS OF SOFTWARE ENGINEERING, FIFTH EDITION MALL, RAJIB, 2018-09-01 This book is structured to trace the advancements made and landmarks achieved in software engineering The text not only incorporates latest and enhanced software engineering techniques and practices but also shows how these techniques are applied into the practical software assignments The chapters are incorporated with illustrative examples to add an analytical insight on the subject The book is logically organised to cover expanded and revised treatment of all software process activities KEY FEATURES Large number

of worked out examples and practice problems Chapter end exercises and solutions to selected problems to check students comprehension on the subject Solutions manual available for instructors who are confirmed adopters of the text PowerPoint slides available online at www.phindia.com rajibmall to provide integrated learning to the students NEW TO THE FIFTH EDITION Several rewritten sections in almost every chapter to increase readability New topics on latest developments such as agile development using SCRUM MC DC testing quality models etc A large number of additional multiple choice questions and review questions in all the chapters help students to understand the important concepts TARGET AUDIENCE BE B Tech CS and IT BCA MCA M Sc CS MBA Formal Methods and Software Engineering Lindsay Groves,Jing Sun,2013-10-21 This book constitutes the refereed proceedings of the 15th International Conference on Formal Engineering Methods ICFEM 2013 held in Queenstown New Zealand in October November 2013 The 28 revised full papers together with 2 keynote speeches presented were carefully reviewed and selected from 88 submissions The topics covered are abstraction and refinement formal specification and modeling program analysis software verification formal methods for software safety security reliability and dependability tool development integration and experiments involving verified systems formal methods used in certifying products under international standards and formal model based development and code generation

Computational Science and Its Applications - ICCSA 2018 Osvaldo Gervasi,Beniamino Murgante,Sanjay Misra,Elena Stankova,Carmelo M. Torre,Ana Maria A.C. Rocha,David Taniar,Bernady O. Apduhan,Eufemia Tarantino,Yeonseung Ryu,2018-07-03 The five volume set LNCS 10960 until 10964 constitutes the refereed proceedings of the 18th International Conference on Computational Science and Its Applications ICCSA 2018 held in Melbourne Australia in July 2018 Apart from the general tracks ICCSA 2018 also includes 34 international workshops in various areas of computational sciences ranging from computational science technologies to specific areas of computational sciences such as computer graphics and virtual reality The total of 265 full papers and 10 short papers presented in the 5 volume proceedings set of ICCSA 2018 were carefully reviewed and selected from 892 submissions The paper Nitrogen Gas on Graphene Pairwise Interaction Potentials is available open access under a Creative Commons Attribution 4 0 International License via link springer.com **Software Engineering and Formal Methods** Domenico Bianculli,Radu Calinescu,Bernhard Rumpe,2016-01-11 This book constitutes revised selected papers from the workshopscollocated with the SEFM 2015 conference on Software Engineering and Formal Methods held in York UK in September 2015 The 25 papers included in this volume were carefully reviewed and selected from 32 submissions The satellite workshops provided a highly interactive and collaborative environment for researchers and practitioners from industry and academia to discuss emerging areas of software engineering and formal methods The four workshops were ATSE 2015 The 6th Workshop on Automating Test Case Design Selection and Evaluation HOFM 2015 The 2nd Human Oriented Formal Methods Workshop MoKMaSD 2015 The 4th International Symposium on Modelling and Knowledge Management Applications Systems and Domains VERY SCART 2015

The 1st International Workshop on the Art of Service Composition and Formal Verification for Self Systems **Software Engineering: Principles, Practices And Modern Technologies** Dr. Ramesh Kait, Dive into the core of modern software development with this comprehensive guide that blends timeless principles practical practices and the newest technologies Whether you re a student early career developer or a professional looking to refresh your software engineering toolkit this book equips you with what you need to design build deploy and maintain high quality software in today s fast changing tech landscape The foundational principles of software engineering requirements gathering system design modeling and architectural thinking Modern development methodologies Agile DevOps continuous integration continuous deployment CI CD microservices and cloud native design Best practices for quality assurance testing code reviews and maintainability to ensure your software is robust scalable and secure Real world case studies that show how organizations are applying these techniques in live projects *Product-Focused Software Process Improvement* Xavier Franch,Tomi Männistö,Silverio Martínez-Fernández,2019-11-18 This book constitutes the refereed proceedings of the 20th International Conference on Product Focused Software Process Improvement PROFES 2019 held in Barcelona Spain in November 2019 The 24 revised full papers 4 industry papers and 11 short papers presented were carefully reviewed and selected from 104 submissions The papers cover a broad range of topics related to professional software development and process improvement driven by product and service quality needs They are organized in topical sections on testing software development technical debt estimations continuous delivery agile project management microservices and continuous experimentation This book also includes papers from the co located events 10 project papers 8 workshop papers and 4 tutorial summaries **Quality of Information and Communications Technology** Antonia Bertolino,João Pascoal Faria,Patricia Lago,Laura Semini,2024-09-10 This book constitutes the proceedings of the 17th International Conference on the Quality of Information and Communications Technology QUATIC 2024 held in Pisa Italy during September 11 13 2024 The 34 full and short papers of QUATIC 2024 included in this book were carefully reviewed and selected from 49 submissions QUATIC is a forum for disseminating advanced methods techniques and tools to support quality approaches to ICT engineering and management Practitioners and researchers are encouraged to exchange ideas and approaches on how to adopt a quality culture in ICT process and product improvement and to provide practical studies in varying contexts Evaluation of Novel Approaches to Software Engineering Ernesto Damiani,George Spanoudakis,Leszek A. Maciaszek,2019-06-29 This book constitutes the refereed proceedings of the 13th International Conference on Evaluation of Novel Approaches to Software Engineering ENASE 2018 held in Funchal Madeira Portugal in March 2018 The 17 revised full papers and 5 revised short papers presented were carefully reviewed and selected from 95 submissions The papers are organized in topical sections on service science and business information systems and software engineering **EuSEC 2000** Herbert Negele,2000

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