

# Non Functional Requirements in Software Engineering



# Non Functional Requirements In Software Engineering

**Roel Wieringa, Anne Persson**



## **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

*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

**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

**Essentials of Software Engineering** Frank Tsui, Orlando Karam, 2011 Computer Architecture Software Engineering *Bücher-Sammlung der landwirtschaftlichen Vereins zu ...*, 1857

Software Engineering Dr. (Prof.) Rajendra Prasad, Prof. Govind Verma, 2016-01-01 The importance of Software Engineering is well known in various engineering fields Overwhelming response to my books on various subjects inspired me to write this book The book is structured to cover the key aspects of the subject Software Engineering This book provides logical method of explaining various complicated concepts and stepwise methods to explain the important topics Each chapter is well supported with necessary illustrations practical examples and solved problems All the chapters in the book are arranged in a proper sequence that permits each topic to build upon earlier studies All care has been taken to make students comfortable in understanding the basic concepts of the student Some of the books cover the topics in great depth and detail while others cover only the most important topics Obviously no single book on this subject can meet everyone s needs but many lie to either end of spectrum to be really helpful At the low end there are the superficial ones that leave the readers confused or unsatisfied Those at the high end cover the subject with such thoroughness as to be overwhelming The present edition is primarily intended to serve the need to students preparing for B Tech M Tech and MCA courses This book is an outgrowth of our teaching experience In our academic interaction with teachers and students we found that they face considerable difficulties in using the available books in this growing academic discipline The authors simply presented the subjects matter in their own style and make the subject easier by giving a number of questions and summary given at the end of the chapter

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

**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 *Requirements Engineering: Foundation for Software Quality* Roel Wieringa, Anne Persson, 2010-06-17 This volume constitutes the refereed proceedings of the International Working Conference REFSQ 2010 held in Essen Germany in June July 2010 **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](http://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](https://www.springer.com)      *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      **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

*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

**Mobile Devices and Smart Gadgets in Medical Sciences** Umair, Sajid, 2020-02-21 Each day new applications and methods are developed for utilizing technology in the field of medical sciences both as diagnostic tools and as methods for patients to access their medical information through their personal gadgets However the maximum potential for the application of new technologies within the medical field has not yet been realized Mobile Devices and Smart Gadgets in Medical Sciences is a pivotal reference source that explores different mobile applications tools software and smart gadgets and their applications within the field of healthcare Covering a wide range of topics such as artificial intelligence telemedicine and oncology this book is ideally designed for medical practitioners mobile application developers technology developers software experts computer engineers programmers ICT innovators policymakers researchers academicians and students

*Software Engineering: Design, Development, and Management* Prof. Santosh Kumar, 2024-08-14 Software Engineering Design Development and Management is a comprehensive resource that examines the fundamental aspects of software engineering providing a fair mix of theory and practical application This book tries to provide readers with the information and abilities required to traverse the quickly changing field of software development making it an essential resource for educators professionals in the field and students alike The three main portions of the book are design development and management Readers will learn about architectural patterns user centered design concepts and the



significance of scalability and maintainability in software solutions in the design part The development section discusses many approaches such as Scrum Agile and DevOps emphasizing how they promote efficiency and teamwork across the software lifecycle The importance of efficient team dynamics project planning or risk management techniques is emphasized by the management component It offers helpful advice on managing software teams and making sure projects are completed on schedule and within budget Readers may observe how principles are used in real world scenarios via case studies and practical examples that enhance the material This book gives you useful insights and resources to excel in the area whether you re a professional looking to expand your skill set or a student looking for core information The ultimate goal of Software Engineering Design Development and Management is to provide readers with the tools they need to help create high caliber software that endures and satisfies user demands

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