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(Eds)

Guide to Advanced Empirical Software Engineering

 Springer

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Khalil Drira



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Empirical studies have become an important part of software engineering research and practice Ten years ago it was rare to see a conference or journal article about a software development tool or process that had empirical data to back up the claims Today in contrast it is becoming more and more common that software engineering conferences and journals are not only publishing but eliciting articles that describe a study or evaluation Moreover a very successful conference International Symposium on Empirical Software Engineering and Measurement journal Empirical Software Engineering and organization International Software Engineering Research Network have all evolved in the last 10 years that focus solely on this area As a further illustration of the growth of empirical software engineering a search in the articles of 10 software engineering journals showed that the proportion of articles that used the term empirical software engineering d bled from about 6% in 1997 to about 12% in 2006 While empirical software engineering has seen such substantial growth there is not yet a reference book that describes advanced techniques for running studies and their application This book aims to fill that gap The chapters are written by some of the top international empirical software engineering researchers and focus on the practical knowledge necessary for conducting reporting and using empirical methods in software engineering The book is intended to serve as a standard reference

Guide to Advanced Empirical Software Engineering Forrest Shull, Janice Singer, Dag I. K. Sjøberg, 2007-11-21 Empirical studies have become an important part of software engineering research and practice Ten years ago it was rare to see a conference or journal article about a software development tool or process that had empirical data to back up the claims Today in contrast it is becoming more and more common that software engineering conferences and journals are not only publishing but eliciting articles that describe a study or evaluation Moreover a very successful conference International Symposium on Empirical Software Engineering and Measurement journal Empirical Software Engineering and organization International Software Engineering Research Network have all evolved in the last 10 years that focus solely on this area As a further illustration of the growth of empirical software engineering a search in the articles of 10 software engineering journals showed that the proportion of articles that used the term empirical software engineering d bled from about 6% in 1997 to about 12% in 2006 While empirical software engineering has seen such substantial growth there is not yet a reference book that describes advanced techniques for running studies and their application This book aims to fill that gap The chapters are written by some of the top international empirical software engineering researchers and focus on the practical knowledge necessary for conducting reporting and using empirical methods in software engineering The book is intended to serve as a standard reference

Case Study Research in Software Engineering Per Runeson, Martin Host, Austen Rainer, Bjorn Regnell, 2012-03-07 Based on their own experiences of in depth case studies of software projects in international corporations in this book the authors present detailed practical guidelines

on the preparation conduct design and reporting of case studies of software engineering This is the first software engineering specific book on the case study research method *Product-Focused Software Process Improvement* Frank Bomarius, Markku Oivo, Päivi Jaring, Pekka Abrahamsson, 2009-06-18 On behalf of the PROFES Organizing Committee we are proud to present the proceedings of the 10 International Conference on Product Focused Software Process Improvement PROFES 2009 held in Oulu Finland Since the first conference in 1999 the conference has established its place in the software engineering community as a respected conference that brings together participants from academia and industry The roots of PROFES are in professional software process improvement motivated by product and service quality needs The conference addresses both the solutions found in practice as well as relevant research results from academia To ensure that PROFES retains its high quality and focus on the most relevant research issues the conference has actively maintained close collaboration with industry and subsequently widened its scope to the research areas of collaborative and agile software development A special focus for 2009 was placed on software business to bridge research and practice in the economics of software engineering This enabled us to cover software development in a more comprehensive manner and tackle one of the most important current challenges identified by the software industry and software research community namely the shift of focus from products to services The current global economic downturn emphasizes the need for new methods and solutions for fast and business oriented development of products and services in a globally distributed environment Software Architecture Khalil Drira, 2013-06-25 This book constitutes the proceedings of the 7th European Conference on Software Architecture ECSA 2013 held in Montpellier France in July 2013 The 25 full papers and 11 poster papers presented in this volume were carefully reviewed and selected from a total of 82 submissions The contributions are organized in topical sections named architectural and design patterns and models ADLs and architectural MetaModels architectural design decision making software architecture conformance and quality and architectural repair and adaptation *Software Architecture* Danny Weyns, Raffaella Mirandola, Ivica Crnkovic, 2015-09-02 This book constitutes the proceedings of the 9th European Conference on Software Architecture ECSA 2015 held in Cavtat Croatia in September 2015 The 12 full papers and 15 short papers presented together with three education and training papers in this volume were carefully reviewed and selected from 100 submissions They are organized in topical sections named adaptation design approaches decisions and social aspects education and training cloud and green agile and smart systems analysis and automation services and ecosystems **Software Architecture. ECSA 2023 Tracks, Workshops, and Doctoral Symposium** Bedir Tekinerdoğan, Romina Spalazzese, Hasan Sözer, Silvia Bonfanti, Danny Weyns, 2024-07-29 This book constitutes the refereed proceedings of the tracks and workshops which complemented the 17th European Conference on Software Architecture ECSA 2023 held in Istanbul Turkey in September 2023 The 29 full papers included in this book were carefully reviewed and selected from 32 submissions They were organized in topical sections as follows AMP CASA DE DeMeSSA FAACS

QUALIFIER TwinArch Tools and Demos Industry Track and Doctoral Symposium **Efficiently Conducting Quality-of-Service Analyses by Templating Architectural Knowledge** Lehrig, Sebastian Michael, 2018-04-06 Previously software architects were unable to effectively and efficiently apply reusable knowledge e.g. architectural styles and patterns to architectural analyses. This work tackles this problem with a novel method to create and apply templates for reusable knowledge. These templates capture reusable knowledge formally and can efficiently be integrated in architectural analyses.

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.

Portability of Process-Aware and Service-Oriented Software Jörg Lenhard, 2016-04-19 Research Challenges in Information Science Renata Guizzardi, Jolita Ralyté, Xavier Franch, 2022-05-13 This book constitutes the proceedings of the 16th International Conference on Research Challenges in Information Sciences RCIS 2022, which took place in Barcelona, Spain, during May 17–20, 2022. It focused on the special theme: Ethics and Trustworthiness in Information Science. The scope of RCIS is summarized by the thematic areas of information systems and their engineering, user-oriented approaches, data and information management, business process management, domain-specific information systems engineering, data science, information infrastructures, and reflective research and practice. The 35 full papers presented in this volume were carefully reviewed and selected from a total of 100 submissions. The 18 Forum papers are based on 11 Forum submissions from which 5 were selected, and the remaining 13 were transferred from the regular submissions. The 6 Doctoral Consortium papers were selected from 10 submissions to the consortium. The contributions were organized in topical sections named: Data Science and Data Management, Information Search and Analysis, Business Process Management, Business Process Mining, Digital Transformation and Smart Life, Conceptual Modelling and Ontologies, Requirements Engineering, Model-Driven Engineering, Machine Learning Applications. In addition, two-page summaries of the tutorials can be found in the back matter.

Experimentation in Software Engineering Claes Wohlin, Per Runeson, Martin Höst, Magnus C. Ohlsson, Björn Regnell, Anders Wesslén, 2024-09-03 This textbook, which has become the leading source for empirical software engineering research through its earlier editions, provides an in-depth introduction to experimentation in software engineering. The focus is on the steps to go through when conducting experiments. It also introduces a structure for selecting a research design and an introduction to systematic literature

reviews surveys and case study research Experiments are valuable tools for all software engineers who evaluate and choose between different solutions methods techniques languages and tools The book has three main parts Part I introduces empirical research through a structure for selecting a research design and explains several essential areas related to empirical research Moreover it provides introductions to systematic literature reviews experiments surveys and case studies Part II devotes one chapter to each of the five experiment steps scoping planning execution analysis and result presentation Part III completes the presentation with two examples Assignments and statistical material are provided in appendices The book provides indispensable information regarding empirical studies particularly for experiments but also for systematic literature studies surveys and case studies This new edition comprises substantial new material This includes a chapter on selecting a research design which helps put experimentation into a broader context of other research approaches Furthermore a new chapter on survey research has been added Novel contributions concerning A B testing replications open science validity threats paired comparison design and tools for statistical analysis have been added Moreover systematic literature studies experiments and case study research descriptions have been consolidated The book has also been updated based on the evolution of software engineering since the previous edition's publication The book is intended for students teachers researchers and practitioners who would like to compare different options for example feature designs or different development methods techniques languages or tools Teachers can use the book for undergraduate or graduate students the book can be used as a course book on experimentation and empirical studies in general Researchers will also benefit from the book by learning more about how to conduct empirical studies Likewise practitioners may use it as a cookbook when evaluating different solutions alternatively for evaluating new methods or techniques before implementing them in their organisation

Software Architecture Ilias Gerostathopoulos, Grace Lewis, Thais Batista, Tomáš Bureš, 2022-09-08 This book constitutes the refereed proceedings of the 16th International Conference on Software Architecture ECSA 2022 held in Prague in September 2022 The 9 full papers and 6 short papers were carefully selected from 47 submissions In the Research Track 11 full papers presented together with 5 short papers were carefully reviewed and selected from 58 submissions The papers are organized in topical sections as follows components APIs and interface management architecting for data driven systems microservices and middleware architecture modeling design and decision making architecture reconstruction and recovery

Relating System Quality and Software Architecture Ivan Mistrik, Rami Bahsoon, Peter Eeles, Roshanak Roshandel, Michael Stal, 2014-07-30 System Quality and Software Architecture collects state of the art knowledge on how to intertwine software quality requirements with software architecture and how quality attributes are exhibited by the architecture of the system Contributions from leading researchers and industry evangelists detail the techniques required to achieve quality management in software architecting and the best way to apply these techniques effectively in various application domains especially in cloud mobile and ultra large scale internet scale architecture Taken together these

approaches show how to assess the value of total quality management in a software development process with an emphasis on architecture The book explains how to improve system quality with focus on attributes such as usability maintainability flexibility reliability reusability agility interoperability performance and more It discusses the importance of clear requirements describes patterns and tradeoffs that can influence quality and metrics for quality assessment and overall system analysis The last section of the book leverages practical experience and evidence to look ahead at the challenges faced by organizations in capturing and realizing quality requirements and explores the basis of future work in this area Explains how design decisions and method selection influence overall system quality and lessons learned from theories and frameworks on architectural quality Shows how to align enterprise system and software architecture for total quality Includes case studies experiments empirical validation and systematic comparisons with other approaches already in practice

Software Business João M. Fernandes,Ricardo J. Machado,Krzysztof Wnuk,2015-06-11 This book contains the refereed proceedings of the 6th International Conference on Software Business ICSOB 2015 held in Braga Portugal in June 2015 The theme of the event was Enterprising Cities focusing on a noticeable spillover of software within other industries enabling new business models Companies bundle their physical products and software services into solutions and start to sell independent software products in addition to physical products The 16 full five short and three doctoral symposium papers accepted for ICSOB were selected from 42 submissions The papers span a wide range of issues related to contemporary software business from strategic aspects that include external reuse ecosystem participation and acquisitions to operational challenges associated with running software business Open Source Systems: Towards Robust Practices Federico Balaguer,Roberto Di Cosmo,Alejandra Garrido,Fabio Kon,Gregorio Robles,Stefano Zacchiroli,2017-05-10 This book is open access under a CC BY license This book constitutes the refereed proceedings of the 13th IFIP WG 2.13 International Conference on Open Source Systems OSS 2017 held in Buenos Aires Argentina in May 2017 The 16 revised full papers and 3 short papers presented were carefully reviewed and selected from 32 submissions The papers cover a wide range of topics related to free libre and open source software FLOSS including licensing strategies and practices case studies projects communication and participation tools and project management development and evaluation Product-Focused Software Process Improvement Danilo Caivano,Markku Oivo,Maria Teresa Baldassarre,Giuseppe Visaggio,2011-06-15 This book constitutes the refereed proceedings of the 12 International Conference on Product Focused Software Process Improvement PROFES 2011 held in Torre Canne Italy in June 2011 The 24 revised full papers presented together with the abstracts of 2 keynote addresses were carefully reviewed and selected from 54 submissions The papers are organized in topical sections on agile and lean practices cross model quality improvement global and competitive software development managing diversity product and process measurements product focused software process improvement requirement process improvement and software process improvement **Strategic Software Quality Management** Mahsa Fidanboy,Cemalettin Öcal

Fidanboy,2025-03-27 This book introduces strategic management tools and techniques appropriate for use in software quality management There has been a gap between strategic management and software quality and the solutions for solving the problems and improving the software quality usually come from the experience of IT experts the managerial experience This book helps people interested in software quality to go beyond the IT technical issues and integrate strategic management tools with their technical knowledge to become more prepared for the future develop long term plans for solutions and improvements take more strategic decisions even when compared with the competitors and finally reach sustainable continuous improvements This book by bridging software quality management and strategic management can be used by software quality practitioners for effective results The software development process is usually studied with regards to its functional aspects and the attempts to improve the quality and performance are mainly concentrated on the technical side The developers testers or engineers search for solutions mostly directed toward a local problem specific to a unit department or code What is often missing is grasping the big image of the problem the managerial aspect Even if all the technical staff are doing their tasks as they were planned there is a vital need for identifying the bottlenecks and the points in need of improvements alterations and exclusions together with tracking the progress and coming up with future strategies This makes the software quality management activities intertwined with the strategic management concepts where strategic management enhances the quality management with its tools and techniques and in return the software quality management provides the strategic management with insights on the technical issues resulting in symbiosis The highly competitive nature of the IT world makes it inevitable to take strategic tools and techniques into account and infuse them into the technical practices of software quality management This book encompasses the following chapters analyzing the current situation identifying the improvement areas determining the strategies tracking the progress and achieving a sustainable improvement

Integration of Reusable Systems Thouraya Bouabana-Tebibel, Stuart H. Rubin, 2014-02-17 Software reuse and integration has been described as the process of creating software systems from existing software rather than building software systems from scratch Whereas reuse solely deals with the artifacts creation integration focuses on how reusable artifacts interact with the already existing parts of the specified transformation Currently most reuse research focuses on creating and integrating adaptable components at development or at compile time However with the emergence of ubiquitous computing reuse technologies that can support adaptation and reconfiguration of architectures and components at runtime are in demand This edited book includes 15 high quality research papers written by experts in information reuse and integration to cover the most recent advances in the field These papers are extended versions of the best papers which were presented at IEEE International Conference on Information Reuse and Integration and IEEE International Workshop on Formal Methods Integration which was held in San Francisco in August 2013 **Software Business** Sami Hyrynsalmi, Jürgen Münch, Kari Smolander, Jorge Melegati, 2024-02-08 This open access book constitutes the refereed

proceedings of the 23rd International Conference on Software Business ICSOB 2023 which was held in Lahti Finland during November 27 29 2023 The special theme of ICSOB 2023 was Digital Agility Mastering Change in Software Business and Digital Services The 27 full papers and 8 short papers presented in this book were carefully reviewed and selected from 79 submissions They were organized in topical sections as follows Requirements software procurement platforms ecosystems and data artificial intelligence software startups software product management software and business co development and emerging digital world

Whispering the Strategies of Language: An Mental Quest through **Guide To Advanced Empirical Software Engineering**

In a digitally-driven earth where monitors reign great and quick transmission drowns out the subtleties of language, the profound techniques and psychological subtleties concealed within words frequently get unheard. However, located within the pages of **Guide To Advanced Empirical Software Engineering** a interesting literary value blinking with natural thoughts, lies an exceptional quest waiting to be undertaken. Penned by a skilled wordsmith, this charming opus attracts readers on an introspective journey, delicately unraveling the veiled truths and profound impact resonating within the very material of each and every word. Within the psychological depths of the poignant review, we will embark upon a genuine exploration of the book is primary themes, dissect its captivating publishing model, and fail to the powerful resonance it evokes heavy within the recesses of readers hearts.

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