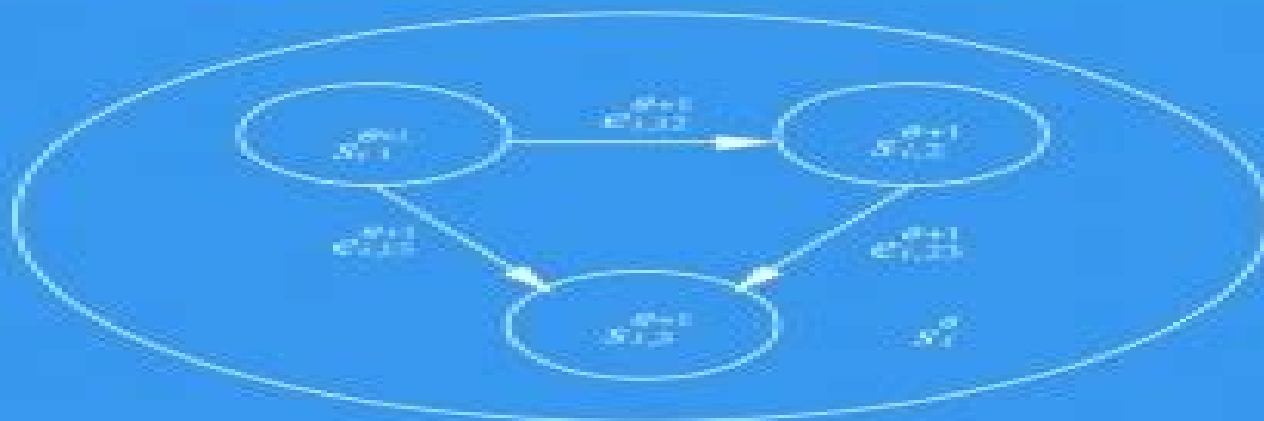


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Alexander Knapp  
Simonetta Balsamo (Eds.)

# Radical Innovations of Software and Systems Engineering in the Future

9th International Workshop, RISSEF 2002  
Venice, Italy, October 2002  
Revised Papers



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# Radical Innovations Of Software And Systems Engineering In The Future

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## **Radical Innovations Of Software And Systems Engineering In The Future:**

**Radical Innovations of Software and Systems Engineering in the Future** Martin Wirsing, Alexander Knapp, Simonetta Balsamo, 2004-03-03 This volume contains the papers from the workshop Radical Innovations of Software and Systems Engineering in the Future This workshop was the ninth in the series of Monterey Software Engineering workshops for formulating and advancing software engineering models and techniques with the fundamental theme of increasing the practical impact of formal methods During the last decade object orientation was the driving factor for new system solutions in many areas ranging from e commerce to embedded systems New modeling languages such as UML and new programming languages such as Java and CASE tools have considerably influenced the system development techniques of today and will remain key techniques for the near future However actual practice shows many deficiencies of these new approaches there is no proof and no evidence that software productivity has increased with the new methods UML has no clean scientific foundations which inhibits the construction of powerful analysis and development tools support for mobile distributed system development is missing for many applications object oriented design is not suited to producing clean well structured code as many applications show Radical Innovations of Software and Systems Engineering in the Future Martin Wirsing, RISSEF., **Radical Innovations of Software and Systems Engineering in the Future** Martin Wirsing, 2004-03-18 This book constitutes the thoroughly refereed post proceedings of the 9th International Workshop on Radical Innovations of Software and Systems Engineering in the Future RISSEF 2002 held in Venice Italy in October 2002 The 24 revised full papers presented were carefully reviewed and selected from the 36 invited workshop presentations The authors evaluate all major paradigms and conceptual issues in software and systems design and analysis especially regarding their potential for modifications to cope with future needs **Innovative Methods, User-Friendly Tools, Coding, and Design Approaches in People-Oriented Programming** Goschnick, Steve, 2018-05-09 As modern technologies continue to develop and evolve the ability of users to interface with new systems becomes a paramount concern Research into new ways for humans to make use of advanced computers and other such technologies is necessary to fully realize the potential of twenty first century tools Innovative Methods User Friendly Tools Coding and Design Approaches in People Oriented Programming is a critical scholarly resource that examines development and customization user interfaces for advanced technologies and how these interfaces can facilitate new developments in various fields Featuring coverage on a broad range of topics such as role based modeling end user composition and wearable computing this book is a vital reference source for programmers developers students and educators seeking current research on the enhancement of user centric information system development Innovations for Requirement Analysis. From Stakeholders' Needs to Formal Designs Barbara Paech, Craig Martell, 2008-11-27 We are pleased to present the proceedings of the 14th Monterey Workshop which took place September 10-13 2007 in Monterey CA USA In this preface we give the reader an overview of what took place at the

workshop and introduce the contributions in this Lecture Notes in Computer Science volume A complete introduction to the theme of the workshop as well as to the history of the Monterey Workshop series can be found in Luqi and Kordon s Advances in Requirements Engineering Bridging the Gap between Stakeholders Needs and Formal Designs in this volume This paper also contains the case study that many participants used as a problem to frame their analyses and a summary of the workshop s results The workshop consisted of three keynote talks three panels presentations of peer reviewed papers as well as presentations of various position papers by the participants The keynote speakers at this year s workshop were Daniel Berry Aravind Joshi and Lori Clarke Each of their talks was used to set the tone for the presentations and discussions for that particular day Daniel Berry presented an overview of the needs and challenges of natural language processing in requirements engineering with a special focus on ambiguity in his talk Ambiguity in Natural Language Requirements Aravind Joshi provided an overview of current natural language processing research in discourse analysis in the talk Some Recent Developments in Natural Language Processing Finally Lori Clarke showed how to combine formal requirements specification with natural language processing to cope with the complex domain of medical information processes in Getting the Details Right

*Foundations of Computer Software* Radu Calinescu, Ethan Jackson, 2011-05-27 This book presents the thoroughly refereed and revised post workshop proceedings of the 16th Monterey Workshop held in Redmond WA USA in March April 2010 The theme of the workshop was Foundations of Computer Software with a special focus on Modeling Development and Verification of Adaptive Systems The 13 revised full papers presented were carefully reviewed and selected from numerous submissions for inclusion in the book The contributions show how the foundations and development techniques of computer software could be adapted even for industrial safety critical and business critical applications to improve dependability and robustness and to ensure information privacy and security

*Large-Scale Complex IT Systems. Development, Operation and Management* Radu Calinescu, David Garlan, 2012-10-12 This book presents the thoroughly refereed and revised post workshop proceedings of the 17th Monterey Workshop held in Oxford UK in March 2012 The workshop explored the challenges associated with the Development Operation and Management of Large Scale complex IT Systems The 21 revised full papers presented were significantly extended and improved by the insights gained from the productive and lively discussions at the workshop and the feedback from the post workshop peer reviews

**Formal Methods for Embedded Distributed Systems** Fabrice Kordon, Michel Lemoine, 2007-05-08 The development of any Software Industrial Intensive System e g critical embedded software requires both different notations and a strong development process Different notations are mandatory because different aspects of the Software System have to be tackled A strong development process is mandatory as well because without a strong organization we cannot warrantee the system will meet its requirements Unfortunately much more is needed The different notations that can be used must all possess at least one property formality The development process must also have important properties a exhaustive coverage of the development phases and a set of

well integrated support tools In Computer Science it is now widely accepted that only formal notations can guarantee a perfect defined meaning This becomes a more and more important issue since software systems tend to be distributed in large systems for instance in safe public transportation systems and in small ones for instance numerous processors in luxury cars Distribution increases the complexity of embedded software while safety criteria get harder to be met On the other hand during the past decade Software Engineering techniques have been improved a lot and are now currently used to conduct systematic and rigorous development of large software systems UML has become the de facto standard notation for documenting Software Engineering projects UML is supported by many CASE tools that offer graphical means for the UML notation

**Accelerating Digital Transformation** Jan Bosch, Jan Carlson, Helena Holmström Olsson, Kristian Sandahl, Mirosław Staron, 2022-10-19 This book celebrates the 10 year anniversary of Software Center a collaboration between 18 European companies and five Swedish universities by presenting some of the most impactful and relevant journal or conference papers that researchers in the center have published over the last decade The book is organized around the five themes around which research in Software Center is organized i.e. Continuous Delivery Continuous Architecture Metrics Customer Data and Ecosystems Driven Development and AI Engineering The focus of the Continuous Delivery theme is to help companies to continuously build high quality products with the right degree of automation The Continuous Architecture theme addresses challenges that arise when balancing the need for architectural quality and more agile ways of working with shorter development cycles The Metrics theme studies and provides insight to understand monitor and improve software processes products and organizations The fourth theme Customer Data and Ecosystem Driven Development helps companies make sense of the vast amounts of data that are continuously collected from products in the field Eventually the theme of AI Engineering addresses the challenge that many companies struggle with in terms of deploying machine and deep learning models in industrial contexts with production quality Each theme has its own part in the book and each part has an introduction chapter and then a carefully selected reprint of the most important papers from that theme This book mainly aims at researchers and advanced professionals in the areas of software engineering who would like to get an overview about the achievement made in various topics relevant for industrial large scale software development and management and to see how research benefits from a close cooperation between industry and academia

**Synergies Between Knowledge Engineering and Software Engineering** Grzegorz J. Nalepa, Joachim Baumeister, 2017-09-15 This book compiles a number of contributions originating from the KESE Knowledge Engineering and Software Engineering workshop series from 2005 to 2015 The idea behind the series was the realignment of the knowledge engineering discipline and its strong relation to software engineering as well as to the classical aspects of artificial intelligence research The book introduces symbiotic work combining these disciplines such as aspect oriented and agile engineering using anti patterns and system refinement Furthermore it presents successful applications from different areas that were created by combining techniques from both

areas      **Evolving Software Processes** Arif Ali Khan,Dac-Nhuong Le,2022-01-05 EVOLVING SOFTWARE PROCESSES The book provides basic building blocks of evolution in software processes such as DevOps scaling agile process in GSD in order to lay a solid foundation for successful and sustainable future processes One might argue that there are already many books that include descriptions of software processes The answer is yes but Becoming acquainted with existing software processes is not enough It is tremendously important to understand the evolution and advancement in software processes so that developers appropriately address the problems applications and environments to which they are applied Providing basic knowledge for these important tasks is the main goal of this book Industry is in search of software process management capabilities The emergence of the COVID 19 pandemic emphasizes the industry s need for software specific process management capabilities Most of today s products and services are based to a significant degree on software and are the results of largescale development programs The success of such programs heavily depends on process management capabilities because they typically require the coordination of hundreds or thousands of developers across different disciplines Additionally software and system development are usually distributed across geographical cultural and temporal boundaries which make the process management activities more challenging in the current pandemic situation This book presents an extremely comprehensive overview of the evolution in software processes and provides a platform for practitioners researchers and students to discuss the studies used for managing aspects of the software process including managerial organizational economic and technical It provides an opportunity to present empirical evidence as well as proposes new techniques tools frameworks and approaches to maximize the significance of software process management Audience The book will be used by practitioners researchers software engineers and those in software process management DevOps agile and global software development      **Component-Based Software Engineering** Ivica Crnkovic,2004-05-12 This book constitutes the refereed proceedings of the 7th International Symposium on Component Based Software Engineering CBSE 2004 held in Edinburgh UK in May 2004 as an adjunct event to ICSE 2004 The 12 revised long papers and 13 revised short papers presented together with the abstracts of 2 invited talks were carefully reviewed and selected from 82 submissions The papers are organized in topical sections on generation and adoption of component based systems tools and building frameworks components for real time embedded systems extra functional properties of components and component based systems and measurement and prediction models for component assemblies      Reliable Systems on Unreliable Networked Platforms Fabrice Kordon,Janos Sztipanovits,2007-06-21 This book constitutes the refereed post proceedings of the 12th International Monterey Workshop on Networked Systems with special focus on realization of reliable systems on top of unreliable networked platforms held in Laguna Beach CA in September 2005 Coverage includes model based software development of network centric system of systems foundations of future design and programming abstractions and intelligent and robust middleware      **Models, Algebras and Logic of Engineering Software** Manfred

Broy, Markus Pizka, 2003 This volume focuses on the education of researchers teachers students and practitioners As usual in engineering a study and application of the relevant branches of mathematics is crucial both in education and practice

**Agile Methods** Tiago Silva da Silva, Bernardo Estácio, Josiane Kroll, Rafaela Mantovani Fontana, 2017-03-23 This book constitutes revised selected papers from the 7th Brazilian Workshop on Agile Methods WBMA 2016 held in Curitiba Brazil in November 2016 The 10 full and 4 short papers presented in this volume were carefully reviewed and selected from 35 submissions The papers present empirical results and literature reviews on agile implementation in government and distributed environments design thinking and projects inception testing and technical debt motivation and gamification training modeling and project management maturity models and quality assurance **Software Engineering Research and Practice and e-Learning, e-Business, Enterprise Information Systems, and e-Government** Hamid R.

Arabnia, Leonidas Deligiannidis, 2025-04-15 This book constitutes the proceedings of the 22nd International Conference on Software Engineering Research and Practice SERP 2024 and the 23rd International Conference on e Learning e Business Enterprise Information Systems and e Government EEE 2024 held as part of the 2024 World Congress in Computer Science Computer Engineering and Applied Computing in Las Vegas USA during July 22 to July 25 2024 For SERP 2024 52 submissions have been received and 9 papers have been accepted for publication in these proceedings the 12 papers included from EEE 2024 have been carefully reviewed and selected from 55 submissions They have been organized in topical sections as follows software engineering research and practice e learning e business enterprise information systems and e government Quality of Software Architectures and Software Quality Ralf H. Reussner, Johannes Mayer, Judith A.

Stafford, Sven Overhage, Steffen Becker, Patrick J. Schroeder, 2005-09-09 This book constitutes the joint refereed proceedings of two colocated events the First International Conference on the Quality of Software Architectures QoSA 2005 and the Second International Workshop on Software Quality SOQUA 2005 held in Erfurt Germany in September 2005 The 18 revised full papers presented were carefully reviewed and selected from 48 submissions For QoSA 2005 only 12 papers of the 31 submitted were accepted for presentation they are concerned with research and experiences that investigate the influence a specific software architecture has on software quality aspects The papers are organized in topical sections on software architecture evaluation formal approaches to model driven QoS handling modelling QoS in software architectures software architectures applied architectural design for QoS and model driven software reliability estimation The 6 papers accepted for SOQUA 2005 from 17 submissions mainly focus on quality assurance and on software testing They are organized in topical sections on test case selection model based testing unit testing and performance testing **Composition of Embedded Systems. Scientific and Industrial Issues** Fabrice Kordon, Oleg Sokolsky, 2008-01-11 This book constitutes the thoroughly refereed post proceedings of the 13th International Monterey Workshop on Composition of Embedded Systems Scientific and Industrial Issues held in Paris France in October 2006 The 12 revised full papers presented were carefully selected during

two rounds of reviewing and improvement from numerous submissions The workshop discussed a range of challenges in embedded systems design that require further major advances in technology      *Cyber-Physical Systems* Danda B.

Rawat,Joel J.P.C. Rodrigues,Ivan Stojmenovic,2015-10-28 Although comprehensive knowledge of cyber physical systems CPS is becoming a must for researchers practitioners system designers policy makers system managers and administrators there has been a need for a comprehensive and up to date source of research and information on cyber physical systems This book fills that need *Cyber Physical Syst*      *The Patentability of Software* Anton Hughes,2019-02-18 This book explores the question of whether software should be patented It analyses the ways in which the courts of the US the EU and Australia have attempted to deal with the problems surrounding the patentability of software and describes why it is that the software patent issue should be dealt with as a patentable subject matter issue rather than as an issue of novelty or nonobviousness Anton Hughes demonstrates that the current approach has failed and that a fresh approach to the software patent problem is needed The book goes on to argue against the patentability of software based on its close relationship to mathematics Drawing on historical and philosophical accounts of mathematics in pursuit of a better understanding of its nature and focusing the debate on the conditions necessary for mathematical advancement the author puts forward an analytical framework centred around the concept of the useful arts This analysis both explains mathematics and therefore software s nonpatentability and offers a theory of patentable subject matter consistent with Australian American and European patent law

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