

Component Based Software Engineering Putting The Pieces Together

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BRENDA CHASE

8th International Symposium, CBSE 2005, St. Louis, MO, USA, May 14-15, 2005 Springer Science & Business Media

The 2010 Symposium on Component-Based Software Engineering (CBSE 2010) was the 13th in a series of successful events that have grown into the main forum for industrial and academic experts to discuss component technology. CBSE is concerned with the development of software-intensive systems from - dependently developed software-building blocks (components), the development of components, and system maintenance and improvement by means of com- nent replacement and customization. The aim of the conference is to promote a science and technology foundation for achieving predictable quality in software systems through the use of software component technology and its associated software engineering practices. In line with a broad interest, CBSE 2010 received 48 submissions. From these submissions, 14 were accepted after a careful peer-review process followed by an online program committee discussion. This resulted in an acceptance rate of 29%. The selected technical papers are published in this volume. For the fourth time, CBSE 2010 was held as part of the conference series: Fed- ated Events on Component-Based Software Engineering and Software Archit- ture (COMPARCH). The federated events were: the 13th International S- posium on Component-Based Software Engineering (CBSE 2010), the 6th - ternational Conference on the Quality of Software Architectures (QoSA 2010), andthe1stInternationalSymposium onArchitecting CriticalSystems(ISARCS 2010). Together with COMPARCH's Industrial Experience Report Track and the co-located Workshop on Component-Oriented Programming (WCOP 2010), COMPARCH provided a broad spectrum of events related to components and architectures.

Component-Based Software Engineering Springer
Component Oriented Programming offers a unique programming-centered approach to component-based software development that delivers the well-developed training and practices you need to successfully apply this cost-effective method. Following an overview of basic theories and methodologies, the authors provide a unified component infrastructure for building component software using JavaBeans, EJB, OSGi, CORBA, CCM, .NET, and Web services. You'll learn how to develop reusable software components; build a software system of pre-built software components; design and implement a component-based

software system using various component-based approaches. Clear organization and self-testing features make Component Oriented Programming an ideal textbook for graduate and undergraduate courses in computer science, software engineering, or information technology as well as a valuable reference for industry professionals.

Software Engineering for Experimental Robotics Springer Science & Business Media

On behalf of the Organizing Committee I am pleased to present the proceedings of the 2005 Symposium on Component-Based Software Engineering (CBSE). CBSE is concerned with the development of software-intensive systems from reusable parts (components), the development of reusable parts, and system maintenance and improvement by means of component replacement and c- tomization. CBSE 2005, "Software Components at Work," was the eighth in a series of events that promote a science and technology foundation for achieving predictable quality in software systems through the use of software component technology and its associated software engineering practices. We were fortunate to have a dedicated Program Committee comprised of 30 internationally recognized researchers and industrial practitioners. We received 91 submissions andeach paper wasreviewedby at least three ProgramComm- tee members (four for papers with an author on the Program Committee). The entire reviewing process was supported by CyberChairPro, the Web-based paper submission and review system developed and supported by Richard vandeStadt of Borbala Online Conference Services. After a two-day virtual Program C- mittee meeting, 21 submissions were accepted as long papers and 2 submissions were accepted as short papers.

Software Engineering for Self-Adaptive Systems Springer Science & Business Media

Here's a complete guide to building reliable component-based software systems. Written by world-renowned experts in the component-based software engineering field, this unique resource helps you manage complex software through the development, evaluation and integration of software components. You quickly develop a keen awareness of the benefits and risks to be considered when developing reliable systems using components. A strong software engineering perspective helps you gain a better understanding of software component design, to build systems with stronger requirements, and avoid typical errors throughout the process, leading to improved quality and time to market.

Component-Based Systems Artech House

Capacity management is a core activity when designing and operating distributed software systems. Particularly, enterprise application systems are exposed to highly varying workloads. Employing static capacity management, this leads to unnecessarily high total cost of ownership due to poor resource usage efficiency. This thesis introduces a model-driven online capacity management approach for distributed component-based software systems, called SLA_{stic}. The core contributions of this approach are a) modeling languages to capture relevant architectural information about a controlled software system, b) an architecture-based online capacity management framework based on the common MAPE-K control loop architecture, c) model-driven techniques supporting the automation of the approach, d) architectural runtime reconfiguration operations for controlling a system's capacity, as well as e) an integration of the Palladio Component Model. A qualitative and quantitative evaluation of the approach is performed by case studies, lab experiments, and simulation.

Second International Conference, ICCBSS 2003 Ottawa, Canada, February 10-13, 2003 Wiley

Current IT developments like component-based development and Web services have emerged as effective ways of building complex enterprise-scale information systems and providing enterprise application integration. To aid this process, platforms such as .NET and WebSphere have become standards in web-based systems development. However, there are still a lot of issues that need to be addressed before service-oriented software engineering (SOSE) becomes a prominent and widely accepted paradigm for enterprise information systems development and integration. This book provides a comprehensive view of SOSE through a number of different perspectives. Some of those perspectives include: service-based concepts, modeling and documentation, service discovery and composition, service-oriented architecture, model-driven development of service-oriented applications, service security and service-orientation in mobile settings. The book provides readers with an in-depth knowledge of the main challenges and practices in the exciting, new world of service-oriented software engineering. Addressing both technical and organizational aspects of this new field, it offers a balance making it valuable to a variety of readers, including IT architects, developers, managers, and analysts.

Business Component-Based Software Engineering "O'Reilly Media, Inc."

Here's a complete guide to building reliable component-based software systems. Written by world-renowned experts in the component-based software engineering field, this unique resource helps you manage complex software through the development, evaluation and integration of software components. You quickly develop a keen awareness of the benefits and risks to be considered when developing reliable systems using components. A strong software engineering perspective helps you gain a better understanding of software component design, to build systems with stronger requirements, and avoid typical errors throughout the process, leading to improved quality and time to market. From component definition, standards, objects and frameworks, to organizational development and support of the component-based life cycle, the book describes aspects of systems development using components and component development. It focuses on dependable and real-time systems, employing case studies from the process automation industry, software production, electronic consumer equipment and office software development.

Component-based Software Development Springer Science &

Business Media

Today, software engineers need to know not only how to program effectively but also how to develop proper engineering practices to make their codebase sustainable and healthy. This book emphasizes this difference between programming and software engineering. How can software engineers manage a living codebase that evolves and responds to changing requirements and demands over the length of its life? Based on their experience at Google, software engineers Titus Winters and Hyrum Wright, along with technical writer Tom Manshreck, present a candid and insightful look at how some of the world's leading practitioners construct and maintain software. This book covers Google's unique engineering culture, processes, and tools and how these aspects contribute to the effectiveness of an engineering organization. You'll explore three fundamental principles that software organizations should keep in mind when designing, architecting, writing, and maintaining code: How time affects the sustainability of software and how to make your code resilient over time How scale affects the viability of software practices within an engineering organization What trade-offs a typical engineer needs to make when evaluating design and development decisions

International Seminar, Dagstuhl Castle, Germany, December 12-17, 2004. Revised Selected Papers BoD - Books on Demand

Software architecture is foundational to the development of large, practical software-intensive applications. This brand-new text covers all facets of software architecture and how it serves as the intellectual centerpiece of software development and evolution. Critically, this text focuses on supporting creation of real implemented systems. Hence the text details not only modeling techniques, but design, implementation, deployment, and system adaptation -- as well as a host of other topics -- putting the elements in context and comparing and contrasting them with one another. Rather than focusing on one method, notation, tool, or process, this new text/reference widely surveys software architecture techniques, enabling the instructor and practitioner to choose the right tool for the job at hand. Software Architecture is intended for upper-division undergraduate and graduate courses in software architecture, software design, component-based software engineering, and distributed systems; the text may also be used in introductory as well as advanced software engineering courses.

Software Engineering at Google Springer

Abstraction is the most basic principle of software engineering. Abstractions are provided by models. Modeling and model transformation constitute the core of model-driven development. Models can be refined and finally be transformed into a technical implementation, i.e., a software system. The aim of this book is to give an overview of the state of the art in model-driven software development. Achievements are considered from a conceptual point of view in the first part, while the second part describes technical advances and infrastructures. Finally, the third part summarizes experiences gained in actual projects employing model-driven development. Beydeda, Book and Gruhn put together the results from leading researchers in this area, both from industry and academia. The result is a collection of papers which gives both researchers and graduate students a comprehensive overview of current research issues and industrial forefront practice, as promoted by OMG's MDA initiative.

Transcending Horizons Through Innovative Global Practices Component-based Software Engineering Putting the Pieces Together

Businesses today are faced with a highly competitive market and fast-changing technologies. In order to meet demanding

customers' needs, they rely on high quality software. A new field of study, soft computing techniques, is needed to estimate the efforts invested in component-based software. *Component-Based Systems: Estimating Efforts Using Soft Computing Techniques* is an important resource that uses computer-based models for estimating efforts of software. It provides an overview of component-based software engineering, while addressing uncertainty involved in effort estimation and expert opinions. This book will also instruct the reader how to develop mathematical models. This book is an excellent source of information for students and researchers to learn soft computing models, their applications in software management, and will help software developers, managers, and those in the industry to apply soft computing techniques to estimate efforts.

Component-Based Software Engineering World Scientific

The carefully reviewed papers in this state-of-the-art survey describe a wide range of approaches coming from different strands of software engineering, and look forward to future challenges facing this ever-resurgent and exacting field of research.

Foundations, Theory, and Practice Springer Science & Business Media

The book describes a method for developing the testing of components in parallel with their functionality based on models. UML models are used to derive the testing architecture for an application, the testing interfaces and the component testers. The method provides a process and guidelines for modeling and developing these artifacts. The book also discusses the implications of built-in contract testing with other component-based development technologies such as product-line engineering, middleware platforms, reuse principles etc. Still further, it describes a new method for specifying and checking real-time properties of object-oriented, component-based real-time systems that are based on dynamic execution time analysis with optimization algorithms.

Component-Based Software Engineering Springer Science & Business Media

Component-based software development (CBD) is an emerging discipline that promises to take software engineering into a new era. Building on the achievements of object-oriented software construction, CBD aims to deliver software engineering from a cottage industry into an industrial age for Information Technology, wherein software can be assembled from components, in the manner that hardware systems are currently constructed from kits of parts. This volume provides a survey of the current state of CBD, as reflected by activities that have been taking place recently under the banner of CBD, with a view to giving pointers to future trends. The contributions report case studies - self-contained, fixed-term investigations with a finite set of clearly defined objectives and measurable outcomes - on a sample of the myriad aspects of CBD. The book includes chapters dealing with COTS (commercial off-the-shelf) components; methodologies for CBD; compositionality, i.e. how to calculate or predict properties of a composite from those of its constituents; component software testing; and grid computing.

13th International Symposium, CBSE 2010, Prague, Czech Republic, June 23-25, 2010, Proceedings O'Reilly Media

This book focuses on a specialized branch of the vast domain of software engineering: component-based software engineering (CBSE). *Component-Based Software Engineering: Methods and Metrics* enhances the basic understanding of components by defining categories, characteristics, repository, interaction, complexity, and composition. It divides the research domain of CBSE into three major sub-domains: (1) reusability issues, (2) interaction and integration issues, and (3) testing and reliability

issues. This book covers the state-of-the-art literature survey of at least 20 years in the domain of reusability, interaction and integration complexities, and testing and reliability issues of component-based software engineering. The aim of this book is not only to review and analyze the previous works conducted by eminent researchers, academicians, and organizations in the context of CBSE, but also suggests innovative, efficient, and better solutions. A rigorous and critical survey of traditional and advanced paradigms of software engineering is provided in the book. Features: In-interactions and Out-Interactions both are covered to assess the complexity. In the context of CBSE both white-box and black-box testing methods and their metrics are described. This work covers reliability estimation using reusability which is an innovative method. Case studies and real-life software examples are used to explore the problems and their solutions. Students, research scholars, software developers, and software designers or individuals interested in software engineering, especially in component-based software engineering, can refer to this book to understand the concepts from scratch. These measures and metrics can be used to estimate the software before the actual coding commences.

Architecting Systems with Trustworthy Components Addison-Wesley Professional

This book reports on the concepts and ideas discussed at the well attended ICRA2005 Workshop on "Principles and Practice of Software Development in Robotics", held in Barcelona, Spain, April 18 2005. It collects contributions that describe the state of the art in software development for the Robotics domain. It also reports a number of practical applications to real systems and discuss possible future developments.

Methods and Metrics CRC Press

Component-based Software Engineering Putting the Pieces Together Addison-Wesley Professional

Building Reliable Component-based Software Systems Springer Providing all the latest on a topic of extreme commercial relevance, this book contains the refereed proceedings of the 10th International ACM SIGSOFT Symposium on Component-Based Software Engineering, held in Medford, MA, USA in July 2007. The 19 revised full papers presented were carefully reviewed and selected from 89 submissions. The papers feature new trends in global software services and distributed systems architectures to push the limits of established and tested component-based methods, tools and platforms.

An Extensible Component & Connector Architecture Description Infrastructure for Multi-Platform Modeling Artech House

This book focuses on a specialized branch of the vast domain of software engineering: component-based software engineering (CBSE). *Component-Based Software Engineering: Methods and Metrics* enhances the basic understanding of components by defining categories, characteristics, repository, interaction, complexity, and composition. It divides the research domain of CBSE into three major sub-domains: (1) reusability issues, (2) interaction and integration issues, and (3) testing and reliability issues. This book covers the state-of-the-art literature survey of at least 20 years in the domain of reusability, interaction and integration complexities, and testing and reliability issues of component-based software engineering. The aim of this book is not only to review and analyze the previous works conducted by eminent researchers, academicians, and organizations in the context of CBSE, but also suggests innovative, efficient, and better solutions. A rigorous and critical survey of traditional and advanced paradigms of software engineering is provided in the book. Features: In-interactions and Out-Interactions both are covered to assess the complexity. In the context of CBSE both

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New Trends in Networking, Computing, E-learning, Systems Sciences, and Engineering Springer Science & Business Media
The book provides a clear understanding of what software reuse is, where the problems are, what benefits to expect, the activities, and its different forms. The reader is also given an overview of what software components are, different kinds of components and compositions, a taxonomy thereof, and examples of successful component reuse. An introduction to software engineering and software process models is also provided.