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COTS-Based Software Systems **Secrets to a Successful Commercial Software (COTS) Implementation** COTS-Based Software Systems **COTS-Based Software Systems** *COTS-Based Software Systems COTS-Based Software Systems* **Managing Software Acquisition COTS-Based Software Systems Component-Based Software Quality COTS Integration Mismatch Resolution - The Framework** Architecting Dependable Systems II **Survey of Library Use of Open Source Software Future Challenges in Security and Privacy for Academia and Industry Software Methodologies** *Testing Commercial-off-the-Shelf Components and Systems* **Component-based Software Development Testing Commercial-off-the-Shelf Components and Systems** *Effective Methods for Software Testing, CafeScribe* **RAOP Software Process Dynamics** COTS-Based Software Systems **COTS-Based Software Systems** Application Administrators Handbook **The Future of Software Engineering Software Testing Software Engineering Concise Guide to Software Engineering** The Project Manager's Guide to Health Information Technology Implementation **ESSCOTS for Learning** *Information Systems Transformation Empirical Methods and Studies in Software Engineering* **High Confidence Software Reuse in Large Systems Strategies to the Prediction, Mitigation and Management of Product Obsolescence Software Product Lines** Component-based Software Development *Software and*

Organisations Successful Packaged Software Implementation **Engineering and Managing Software Requirements** *Web Services and Service-oriented Architectures* **Proceedings**

The theme “Build and Conquer” chosen for this year’s conference fully represents what we (the organizers) want to put across to the software community: software development is an engineering discipline, and not an artistic expression. Once we are ready to “build” our software systems using pieces previously builtin (similar to any other technology manufacturer), we will be able to “conquer” the software engineering process. If we take a look at other engineering disciplines such as car manufacturing, house appliances or aeronautics, we see that the final products are built through the integration of multiprovider commercial components. These components are successfully integrated and constitute an important part of the final product. Most software-related organizations still build software from scratch, omitting thousands of ready-built commercially available software components that could be used very effectively during the development phase. This year ICCBSS moves to Europe for the first time since the first conference took place in Orlando, FL, USA in 2002. The conference scope has enlarged over the years to include the Open Source community and Web Services technologies. The reason for this is that I believe both are considered components-off-the-shelf, so many of the characteristics of COTS are also applied to Open Source and Web Services. Due to this, we will enjoy the presence of keynote speakers and researchers presenting on these two topics for the first time. Written by the founder and executive director of the Quality Assurance Institute, which sponsors the most widely accepted certification program for software testing Software testing is a weak spot for most developers, and many have no

system in place to find and correct defects quickly and efficiently This comprehensive resource provides step-by-step guidelines, checklists, and templates for each testing activity, as well as a self-assessment that helps readers identify the sections of the book that respond to their individual needs Covers the latest regulatory developments affecting software testing, including Sarbanes-Oxley Section 404, and provides guidelines for agile testing and testing for security, internal controls, and data warehouses CD-ROM with all checklists and templates saves testers countless hours of developing their own test documentation Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file. This book focuses on defining the achievements of software engineering in the past decades and showcasing visions for the future. It features a collection of articles by some of the most prominent researchers and technologists who have shaped the field: Barry Boehm, Manfred Broy, Patrick Cousot, Erich Gamma, Yuri Gurevich, Tony Hoare, Michael A. Jackson, Rustan Leino, David L. Parnas, Dieter Rombach, Joseph Sifakis, Niklaus Wirth, Pamela Zave, and Andreas Zeller. The contributed articles reflect the authors‘ individual views on what constitutes the most important issues facing software development. Both research- and technology-oriented contributions are included. The book provides at the same time a record of a symposium held at ETH Zurich on the occasion of Bertrand Meyer‘s 60th birthday. Featuring an associated Web page, and consistently combining theory with real-world practical applications, this text includes thought-provoking questions about legal and ethical issues in software engineering. Component-based software development, CBSD, is no longer just one more new paradigm in software engineering, but is effectively used in development and practice. So far, however, most of the efforts from the software

engineering community have concentrated on the functional aspects of CBSD, leaving aside the treatment of the quality issues and extra-functional properties of software components and component-based systems. The 16 revised chapters presented were carefully reviewed and selected for inclusion in the book; together with an introductory survey, they give a coherent and competent survey of the state of the art in the area. The book - the first to focus on quality issues of components and component-based systems - is organized in topical parts on COTS selection, testing and certification, software component quality models, formal models to quality assessment, and CBSD management. Interesting, timely, and above all, useful, Savvy Guides give IT managers the information they need to effectively manage their technologists, as well as conscientiously inform business decision makers, in the midst of technological revolution. Supply chains for electronic products are primarily driven byconsumer electronics. Every year new mobile phones, computers andgaming consoles are introduced, driving the continued applicabilityof Moore's law. The semiconductor manufacturing industry is highlydynamic and releases new, better and cheaper products day by day.But what happens to long-field life products like airplanes orships, which need the same components for decades? How doelectronic and also non-electronic systems that need to bemanufactured and supported of decades manage to continue operationusing parts that were available for a few years at most? This bookattempts to answer these questions. This is the only book on the market thatcovers obsolescence forecastingmethodologies, including forecasting tactics for hardwareand software that enable cost-effective proactive productlife-cycle management. This book describes how to implement acomprehensive obsolescence management system within diversecompanies. Strategies to the

Prediction, Mitigation andManagement of Product Obsolescence is a must-have work for allprofessionals in product/project management, sustainmentengineering and purchasing. Moderns oftwaresystemsincreasinglyusecommercial-o?-the-shelf(COTS)so-ware products as building blocks. In some cases, major software systems are assembled with virtually no custom code in the system. The use of COTS software products as components o?ers the promise of rapid delivery to end users, shared development costs with other customers, and an opportunity for expanding mission or business capabilities and performance as improvements are made in the commercial marketplace. Few organizations today can a?ord the resources and time to replicate market-tested capabilities. Yet, the promise of COTS products is too often not realized in practice. There have been more failures than successes in using COTS software products. The research and software practitioner communities have been working with COTS-based software systems for a number of years. There is now su?cient documented experience in the community to collect, analyze, and disseminate success stories, common failings, lessons-learned, and research advances. The mounting experience shows that the e?ective use of COTS software products in major software systems demands new skills, knowledge, and abilities, changed roles and responsibilities, and di?erent techniques and processes. The International Conference on COTS-Based Software Systems (ICCBSS) focuses on the challenges of building and maintaining systems that incorporate COTSsoftwareproducts.Theconferences ponsors,theNationalResearchCo- cil Canada, the Software Engineering Institute, and the University of Southern California Center for Software Engineering, aim to bring together managers, - velopers, maintainers, and researchers to share their expertise and experience. An application administrator

installs, updates, optimizes, debugs and otherwise maintains computer applications for an organization. In most cases, these applications have been licensed from a third party, but they may have been developed internally. Examples of application types include enterprise resource planning (ERP), customer resource management (CRM), and point of sale (POS), legal contract management, time tracking, accounts payable/receivable, payroll, SOX compliance tracking, budgeting, forecasting and training. In many cases, the organization is absolutely dependent that these applications be kept running. The importance of application administrators and the level to which organizations depend upon them is easily overlooked. Application Administrators Handbook provides an overview of every phase of administering an application, from working with the vendor before installation, the installation process itself, importing data into the application, handling upgrades, working with application users to report problems, scheduling backups, automating tasks that need to be done on a repetitive schedule, and finally retiring an application. It provides detailed, hands-on instructions on how to perform many specific tasks that an application administrator must be able to handle. Learn how to install, administer and maintain key software applications throughout the product life cycle Get detailed, hands-on instructions on steps that should be taken before installing or upgrading an application to ensure continuous operation Identify repetitive tasks and find out how they can be automated, thereby saving valuable time Understand the latest on government mandates and regulations, such as privacy, SOX, HIPAA, PCI, and FISMA and how to fully comply 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. This is the first book that addresses the genesis and career of the modern day enterprise system in a comprehensive and robust manner. It does so through setting out a new approach for the study of packaged solutions and presents novel empirical studies based on in-depth ethnographic and longitudinal research conducted within supplier organisations and other relevant sites. The authors shift the debate within the social study of information systems, from one that is primarily focused on ¿implementation studies¿, to one that follows software as it evolves, matures and crosses organisational boundaries. Through tracing and comparing the ¿biography¿ of a number of software systems the authors develop a new vocabulary for the dynamics that surround standardised software. Original in its approach, this book draws on a number of ethnographic studies in supplier organisations, user settings, user forums, and applies theories from the Sociology of Technology, Technology Studies, Innovation Studies, and beyond. As such it will be of interest across all of these subject areas and to researchers from the

wider fields of Information Systems and Business Studies. Software product lines are emerging as a critical new paradigm for software development. Product lines are enabling organizations to achieve impressive time-to-market gains and cost reductions. With the increasing number of product lines and product-line researchers and practitioners, the time is right for a comprehensive examination of the issues surrounding the software product line approach. The Software Engineering Institute at Carnegie Mellon University is proud to sponsor the first conference on this important subject. This book comprises the proceedings of the First Software Product Line Conference (SPLC1), held August 28-31, 2000, in Denver, Colorado, USA. The twenty-seven papers of the conference technical program present research results and experience reports that cover all aspects of software product lines. Topics include business issues, enabling technologies, organizational issues, and life-cycle issues. Emphasis is placed on experiences in the development and fielding of product lines of complex systems, especially those that expose problems in the design, development, or evolution of software product lines. The book will be essential reading for researchers and practitioners alike. This paper discusses ESSCOTS systems -- Educational Support Systems based on Commercial-Off-The-Shelf software. ESSCOTS are developed by selecting an existing commercial software product (the "COTS") around which the authors build an education software environment (the "ESS"). The authors' initial experiences indicate that the ESSCOTS approach to developing educational software has several advantages over developing systems from scratch. The authors begin with an overview of a specific ESSCOTS system based on ARC/INFO, a geographical information system. The authors then describe the formative results of piloting this system with middle- and high-school

students, focusing on some especially impressive inquiries that the system enabled. The second half of the paper discusses more broadly the potential benefits of developing educational software as ESSCOTS rather than "from scratch." The authors argue that ESSCOTS can suggest project-based curricula and curriculum reform ideas, stimulate connections between classrooms and work, and profitably couple science, business, and education. The authors also suggest that ESSCOTS can provide important dual-use applications of technology, consistent with the Technology Reinvestment Project. Modernsoftwaresyste msincreasinglyusecommercial-o?-the-shelf(COTS)so- ware products as building blocks. In some cases, major software systems are assembled with virtually no custom code in the system. The use of COTS software products as components o?ers the promise of rapid delivery to end users, shared development costs with other customers, and an opportunity for expanding mission or business capabilities and performance as improvements are made in the commercial marketplace. Few organizations today can a?ord the resources and time to replicate market-tested capabilities. Yet, the promise of COTS products is too often not realized in practice. There have been more failures than successes in using COTS software products. The research and software practitioner communities have been working with COTS-based software systems for a number of years. There is now su?cient documented experience in the community to collect, analyze, and disseminate success stories, common failings, lessons-learned, and research advances. The mounting experience shows that the e?ective use of COTS software products in major software systems demands new skills, knowledge, and abilities, changed roles and responsibilities, and di?erent techniques and processes. The International Conference on COTS-Based Software Systems

(ICCBSS) focuses on the challenges of building and maintaining systems that incorporate COTSsoftwareproducts.Theconferences ponsors,theNationalResearchCo- cil Canada, the Software Engineering Institute, and the University of Southern California Center for Software Engineering, aim to bring together managers, - velopers, maintainers, and researchers to share their expertise and experience. This 125+ page report looks closely at how public, academic and special libraries are using open source solutions for email, integrated library systems, word processing and spreadsheets, the library website, server management, and content management and digital preservation software, among other applications. The study looks at which libraries use open source and which use commercial software and why. The study helps librarians and library information technology staff to answer questions such as: what are the most popular open source applications? How much of an IT or software support staff must a library have to succeed with open source alternatives? How much do libraries spend in supporting open source solutions in both funding and staff time? How much does the use of open source software save them? What areas of library operations have been most impacted by open source? How many open source solutions are libraries of different size staffs and different types using? How many have started with an open source solutions in a given area and then abandoned it? How do libraries evaluate their own success or failure with open source? What are the open source solutions they are most anxious to try in the future? Which outside services do they recommend to support open source alternatives? Which information sources about open source do they find most useful? As software systems become increasingly complex and expensive to build, software engineers are challenged with various options to meet these challenges by turning towards pre-

build software components known as Commercial Off-The-Shelf (COTS) software. COTS software are usually acquired as binary components, and sometimes their behavior is poorly specified. One of the major challenges faced by software engineers when developing systems by integrating COTS is guaranteeing that the components correctly integrate with each other. In particular, to ensure the interaction behavior of these components and the assumptions they make about the interaction behavior within the external context in which they expects to operate. This paper introduces a framework for semi-automatically developing adaptors to resolve signature and protocol mismatches that may occur during COTS integration by unifying various threads of research including byte-code engineering, black-box test case generation, protocol discovery, mismatch patterns and adaptor generation. This book constitutes the refereed proceedings of the Third International Conference on COTS-Based Software Systems, ICCBSS 2004, held in Redondo Beach, CA, USA, in February 2004. The 27 revised papers presented together with summaries of workshops, panels, and tutorials were carefully reviewed and selected from 57 submissions. The papers address all current issues on commercial-off-the-shelf based software systems, from the point of view of research and development as well as from the practitioner's point of view and spanning the entire software life cycle. This book constitutes the refereed proceedings of the 10th International Conference on Software Reuse, ICSR 2008, held in Beijing, China, in May 2008. The 40 revised full papers presented together with 5 workshop summaries and 5 tutorials were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on architecture and reuse approaches, high confidence and reuse, component selection and reuse repository, product line, domain models and analysis, service oriented environment,

components and services, reuse approaches and frameworks, as well as reuse approaches and methods. This comprehensive reference uses a formal and standard evaluation technique to show the strengths and weakness of more than 60 software development methodologies such as agile, DevOps, RUP, Waterfall, TSP, XP and many more. Each methodology is applied to an application of 1000 function points using the Java language. Each methodology produces a characteristic set of results for development schedules, productivity, costs, and quality. The intent of the book is to show readers the optimum kinds of methodologies for the projects they are concerned with and to warn them about counter indications and possible harm from unsuitable methodologies. Industrial development of software systems needs to be guided by recognized engineering principles. Commercial-off-the-shelf (COTS) components enable the systematic and cost-effective reuse of prefabricated tested parts, a characteristic approach of mature engineering disciplines. This reuse necessitates a thorough test of these components to make sure that each works as specified in a real context. Beydeda and Gruhn invited leading researchers in the area of component testing to contribute to this monograph, which covers all related aspects from testing components in a context-independent manner through testing components in the context of a specific system to testing complete systems built from different components. The authors take the viewpoints of both component developers and component users, and their contributions encompass functional requirements such as correctness and functionality compliance as well as non-functional requirements like performance and robustness. Overall this monograph offers researchers, graduate students and advanced professionals a unique and comprehensive overview of the state of the art in testing COTS components and

COTS-based systems. This textbook presents a concise introduction to the fundamental principles of software engineering, together with practical guidance on how to apply the theory in a real-world, industrial environment. The wide-ranging coverage encompasses all areas of software design, management, and quality. Topics and features: presents a broad overview of software engineering, including software lifecycles and phases in software development, and project management for software engineering; examines the areas of requirements engineering, software configuration management, software inspections, software testing, software quality assurance, and process quality; covers topics on software metrics and problem solving, software reliability and dependability, and software design and development, including Agile approaches; explains formal methods, a set of mathematical techniques to specify and derive a program from its specification, introducing the Z specification language; discusses software process improvement, describing the CMMI model, and introduces UML, a visual modelling language for software systems; reviews a range of tools to support various activities in software engineering, and offers advice on the selection and management of a software supplier; describes such innovations in the field of software as distributed systems, service-oriented architecture, software as a service, cloud computing, and embedded systems; includes key learning topics, summaries and review questions in each chapter, together with a useful glossary. This practical and easy-to-follow textbook/reference is ideal for computer science students seeking to learn how to build high quality and reliable software on time and on budget. The text also serves as a self-study primer for software engineers, quality professionals, and software managers. Modernsoftwaresystemsincreasinglyusecom mercial-o?-the-shelf(COTS)so- ware products as building blocks.

In some cases, major software systems are assembled with virtually no custom code in the system. The use of COTS software products as components o?ers the promise of rapid delivery to end users, shared development costs with other customers, and an opportunity for expanding mission or business capabilities and performance as improvements are made in the commercial marketplace. Few organizations today can a?ord the resources and time to replicate market-tested capabilities. Yet, the promise of COTS products is too often not realized in practice. There have been more failures than successes in using COTS software products. The research and software practitioner communities have been working with COTS-based software systems for a number of years. There is now su?cient documented experience in the community to collect, analyze, and disseminate success stories, common failings, lessons-learned, and research advances. The mounting experience shows that the e?ective use of COTS software products in major software systems demands new skills, knowledge, and abilities, changed roles and responsibilities, and di?erent techniques and processes. The International Conference on COTS-Based Software Systems (ICCBSS) focuses on the challenges of building and maintaining systems that incorporate COTSsoftwareproducts .Theconferencesponsors,theNationalResearchCo- cil Canada, the Software Engineering Institute, and the University of Southern California Center for Software Engineering, aim to bring together managers, - velopers, maintainers, and researchers to share their expertise and experience. This book constitutes the refereed proceedings of the Second International Conference on COTS-Based Software Systems, ICCBSS 2003, held in Ottawa, Canada in February 2003. The 24 revised full papers presented were carefully reviewed and selected from numerous submissions. The papers address all current issues on

commcerial-off-the-shelf-systems, from the point of view of research and development as well as from the practitioner's application point of view. Nowadays, societies crucially depend on high-quality software for a large part of their functionalities and activities. Therefore, software professionals, researchers, managers, and practitioners alike have to competently decide what software technologies and products to choose for which purpose. For various reasons, systematic empirical studies employing strictly scientific methods are hardly practiced in software engineering. Thus there is an unquestioned need for developing improved and better-qualified empirical methods, for their application in practice and for dissemination of the results. This book describes different kinds of empirical studies and methods for performing such studies, e.g., for planning, performing, analyzing, and reporting such studies. Actual studies are presented in detail in various chapters dealing with inspections, testing, object-oriented techniques, and component-based software engineering. Industrial development of software systems needs to be guided by recognized engineering principles. Commercial-off-the-shelf (COTS) components enable the systematic and cost-effective reuse of prefabricated tested parts, a characteristic approach of mature engineering disciplines. This reuse necessitates a thorough test of these components to make sure that each works as specified in a real context. Beydeda and Gruhn invited leading researchers in the area of component testing to contribute to this monograph, which covers all related aspects from testing components in a context-independent manner through testing components in the context of a specific system to testing complete systems built from different components. The authors take the viewpoints of both component developers and component users, and their contributions encompass functional requirements such as

correctness and functionality compliance as well as non-functional requirements like performance and robustness. Overall this monograph offers researchers, graduate students and advanced professionals a unique and comprehensive overview of the state of the art in testing COTS components and COTS-based systems. This book constitutes the refereed proceedings of the 4th International Conference on COTS-Based Software Systems, ICCBSS 2005, held in Bilbao, Spain in February 2005. The 28 revised full papers presented together with summaries of panels, workshops, tutorials, and posters were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on COTS at business, integration and interoperability, evaluation and requirements, safety and dependability, architecture and design, COTS management, and open source software. This title looks at strategies for reducing IT costs and improving quality, including open systems and off-the-shelf software. It explains the advantages, risks, and management implications of IT strategies based on these approaches. As software systems become ubiquitous, the issues of dependability become more and more critical. Given that solutions to these issues must be taken into account from the very beginning of the design process, it is appropriate that dependability is addressed at the architectural level. This book results from an effort to bring together the research communities of software architectures and dependability. Inspired by the ICSE 2003 Workshop on Software Architectures for Dependable Systems, the book focuses on topics relevant to improving the state of the art in architecting dependable systems. The 15 thoroughly reviewed papers originate partly from the workshop; others were solicited in order to achieve complete coverage of all relevant aspects. The papers are organized into topical sections on architectures for

dependability, fault-tolerance in software architectures, dependability analysis in software architectures, and industrial experience. In today's world, most global companies face enormous challenges in dealing with an inflexible budget climate when complex changes are required. Secrets to a Successful Commercial Software Implementation will help guide business leaders to gain understanding of how commercial, off-the-shelf (COTS) software like SAP, Seibel, and PeopleSoft should be applied in order to ultimately achieve significant cost savings. Project management professional Nick Berg utilizes his strong background in domestic and international Systems Applications and Products to teach others the potential benefits of implementing COTS products such as faster deployment time, enhanced quality and reliability, reduced development risk, provided periodic upgrades and improvements, and an already established support system. He introduces a unique process for COTS development, presents best-practice processes for COTS projects, and defines the architecture procedures within the COTS environment. Finally, he walks through each project phase of a COTS-based project by introducing the objectives, road map, roles, activities, artifacts, and milestone of the phase. The cultural impact on an organization facing this decision is profound, but if implemented with forethought, planning, and dedicated guidance and execution, the benefits to an organization will be long reaching and significant. This book focuses on providing information on project management specific for software implementations within the healthcare industry. It can be used as a beginners’ guide as well as a reference for current project managers who might be new to software implementations. Utilizing the Project Management Institute’s (PMI) methodology, the defined process groups and knowledge areas will be defined related to implementing custom and

Commercial Off The Shelf (COTS) software. The Software Development Life Cycle (SDLC) is a standard for developing custom software, but can also be followed for implementing COTS applications as well. How will the system be set-up from an architecture and hardware standpoint? What environments will be needed and why? How are changes managed throughout the project and after? These questions and more will be reviewed. The differences between types of testing are defined as well as when each are utilized. Planning for the activation and measuring the success of the project and how well the strategic need has been met are key activities that are often not given the time and effort to plan as the other parts of the implementation project. This new edition updates the current content to better align with the newest version of the PMI's Project Management Body of Knowledge (PMBOK), the latest technology and concepts. In addition, this new edition includes additional chapters covering security and privacy, contract management and system selection and transition to support. 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. In the short space of about a decade, Commercial-Off-the-Shelf (COTS) software has evolved through being a relatively minor aspect of software development; a t- ma nagement-endorsedsilverbulletsolutionforsoftwaredevelopment;a disruptivete- nology requiring people and organizations to extensively rethink their approaches to software development; to an increasingly well-understood software phenomenon for which effective solutions are being developed. Part of this understanding has been to recognize that different COTS application sectors can be at different stages of this evolution. Some sectors are just beginning to become COTS-intensive. Some have evolved COTS solutions that are very well matched to their problem domain. Others, including most large-scale applications, still involve their developers in rethinking how to adapt their traditional software architectures, processes, management practices, and personnel skills to accommodate economically attractive but complex combinations of powerful but incompletely compatible and independently evolving COTS products. The series of International Conferences on COTS-Based Software Systems (ICCBSS) has been established as a continuing

forum for bringing together CBSS developers, s- pliers, and researchers to summarize and discuss progress toward understanding and resolving CBSS problems. This year’s conference theme, “Matching Solutions to P- blems,"re?ectsthisobjective.Wehavebeenfortunatetohavethreeoutstandingkeynote speakers, David Carr, Tricia Oberndorf, and Douglas Schmidt, who have contributed signi?cantly both in analyzing CBSS problems and developing better CBSS solutions. The contributed papers and summaries of workshops, panels, and tutorials in these Proceedingsgiveagoodunderstandingofthenatureanddirectionsofevolutionof CBSS problems and solutions.As has been my experience with previous ICCBSS Proceedings volumes, I believe that you will ?nd lasting value in the content of the Proceedings. This book constitutes the refereed proceedings of the 26th IFIP TC 11 International Information Security Conference, SEC 2011, held in Lucerne, Switzerland, in June 2011. The 24 revised full papers presented together with a keynote talk were carefully reviewed and selected from 100 submissions. The papers are organized in topical sections on malware, information flow and DoS attacks, authentication, network security and security protocols, software security, policy compliance and obligations, privacy attacks and privacy-enhancing technologies, risk analysis and security metrics, and intrusion detection. Successful Packaged Software Implementation guides IT departments through the selection and implementation of packaged software, pointing out potential pitfalls and how to avoid them. Offering a step-by-step approach, this volume begins with an assessment as to whether packaged software is the correct solution. It then analyzes the product selectio Every major enterprise has a significant installed base of existing software systems that reflect the tangled IT architectures that result from decades of patches and failed replacements. Most of these systems were designed to

support business architectures that have changed dramatically. At best, these systems hinder agility and competitiveness and, at worst, can bring critical business functions to a halt. Architecture-Driven Modernization (ADM) restores the value of entrenched systems by capturing and retooling various aspects of existing application environments, allowing old infrastructures to deliver renewed value and align effectively with enterprise strategies and business architectures. Information Systems Transformation provides a practical guide to organizations seeking ways to understand and leverage existing systems as part of their information management strategies. It includes an introduction to ADM disciplines, tools, and standards as well as a series of scenarios outlining how ADM is applied to various initiatives. Drawing upon lessons learned from real modernization projects, it distills the theory and explains principles, processes, and best practices for every industry. Acts as a one-stop shopping reference and complete guide for implementing various modernization models in myriad industries and departments Every concept is illustrated with real-life examples from various modernization projects, allowing you to immediately apply tested solutions and see results Authored by the Co-chair of the Object Management Group (OMG) Architecture-Driven Modernization (ADM) Task Force, which sets definitive systems modernization standards for the entire IT industry A web site supports the book with up to date coverage of evolving ADM Specifications, Tutorials, and Whitepapers, allowing you to remain up to date on modernization topics as they develop This book is designed for professionals and students in software engineering or information technology who are interested in understanding the dynamics of software development in order to assess and optimize their own process strategies. It explains how simulation of interrelated technical and social factors can provide a means

for organizations to vastly improve their processes. It is structured for readers to approach the subject from different perspectives, and includes descriptive summaries of the best research and applications. - First book of its kind (case studies in CBD) - Covers different kinds of components - Covers different component models/technologies - Includes a wide scope of CBD topics - Covers both theoretical and practical work - Includes both formal and informal approaches - Provides a snapshot of current concerns and pointers to future trends