Modernizing Legacy Systems Software Technologies Engineering Processes And Business Practices Sei Series In Software Engineering S

When somebody should go to the ebook stores, search start by shop, shelf by shelf, it is in fact problematic. This is why we allow the books compilations in this website. It will very ease you to see guide **modernizing legacy systems software technologies engineering processes and business practices sei series in software engineering s** as you such as.

By searching the title, publisher, or authors of guide you really want, you can discover them rapidly. In the house, workplace, or perhaps in your method can be every best area within net connections. If you seek to download and install the modernizing legacy systems software technologies engineering processes and business practices sei series in software engineering s, it is categorically easy then, in the past currently we extend the partner to buy and make bargains to download and install modernizing legacy systems software technologies engineering processes and business practices sei series in software engineering s suitably simple!

Conformance Checking and Simulation-based Evolutionary Optimization for Deployment and Reconfiguration of Software in the Cloud - Sören Frey 2014-01-30
Many SaaS providers nowadays want to leverage the cloud's capabilities also for their existing applications, for example, to enable sound scalability and cost-effectiveness. This thesis provides the approach CloudMIG that supports SaaS providers to migrate those applications to IaaS and PaaS-based cloud environments. CloudMIG consists of a step-by-step process and focuses on two core components. (1) Restrictions imposed by specific cloud environments (so-called cloud environment constraints (CECs)), such as a limited file system access or forbidden method calls, can be validated by an automatic conformance checking approach. (2) A cloud deployment option (CDO) determines which cloud environment, cloud resource types, deployment architecture, and runtime reconfiguration rules for exploiting a cloud's elasticity should be used. The implied performance and costs can differ in orders of magnitude. CDOs can be automatically optimized with the help of our simulation-based genetic algorithm CDOXplorer. Extensive lab experiments and an experiment in an industrial context show CloudMIG's applicability and the excellent performance of its two core components.
Cooperative Design, Visualization, and Engineering - Yuhua Luo 2009-09-19
The 6th InternationalConference on Cooperative Design, Visualization and - gineering CDVE 2009 was held in central Europe - Luxembourg. Participants from ?ve continents came together to celebrate this annual event.
Thepaperspublishedintheconferenceinthisvolumere?ectthenewprogress in the following aspect. Research in developing cooperative applications is currently focusing on two directions. One is the cooperation in the software development process and the other is the variety of the targeted cooperative software products. Many papers address how to facilitate cooperation in the software engineering process p- ticularly global software engineering. The importance of sharing information in cooperation is emphasized by the authors. For example, papers that addressed the developmentof sharing mental models, tools for easilyshared projects,sh- ing links for cross-media information spaces, sharing resources and transfer of knowledge among team members etc. have attracted special attention. Many papers presented in this volume are the research results of tackling problems in developing a great variety of cooperative software products. The targeted systems are cooperative support for music creation, cooperative process m- agement systems, cooperative visualization systems for geographic information, cooperative cultural information sharing platforms, cooperative reasoning s- tems, cooperative sensor networks for environment monitoring, remote coop- ative video vehicle monitoring systems etc. Another aspect of the papers in this volume is dealing with the problems in ?ner phases in the cooperative product production life cycle. The topics addressed range from partner selection for - operation at the beginning, requirement gathering, requirement negotiation, to cooperativedesign, production to cooperative testing, and ?nally to cooperative system operation.
Multidisciplinary Approaches to Service-Oriented Engineering - Khosrow-Pour, D.B.A., Mehdi 2018-06-01
The service industry is continually improving, forcing service-oriented engineering to improve alongside it. In a digitalized world, technology within the service industry has adapted to support interactions between users and organizations. By identifying key problems and features, service providers can help increase facilitator profitability and user satisfaction. Multidisciplinary Approaches to Service-Oriented Engineering is a well-rounded collection of research that examines methods of providing optimal system design for service systems and applications engineering. While exploring topics such as cloud ecosystems, interface localization, and requirement prioritization, this publication provides information about the approaches and development of software architectures to improve service quality. This book is a vital resource for engineers, theoreticians, educators, developers, IT consultants, researchers, practitioners, and professionals.
Advanced Information Systems Engineering Workshops - Anne Persson 2015-05-26
This book constitutes the thoroughly refereed proceedings of seven international workshops held in Stockholm, Sweden, in conjunction with the 27th International Conference on Advanced Information Systems Engineering, CAiSE 2015, in June 2015. The 38 full and nine short papers were carefully selected from 107 submissions. The workshops were the Second International Workshop on Advances in Services Design based on the Notion of Capability (ASDENCA), the Third International Workshop on Cognitive Aspects of Information Systems Engineering (COGNISE), the First International Workshop on Digital Business Innovation and the Future Enterprise Information Systems Engineering (DiFenSE), the First International Workshop on Enterprise Modeling (EM), the First Workshop on the Role of Real-World Objects in Business Process Management Systems (RW-BPMS), the 10th International Workshop on Trends in Enterprise Architecture Research (TEAR), and the 5th International Workshop on Information Systems Security Engineering (WISSE).
Software Maintenance Management - Alain April 2012-04-20
This book explores the domain of software maintenance management and provides road maps for improving software maintenance organizations. It describes full maintenance maturity models organized by levels 1, 2, and 3, which allow for benchmarking and continuous improvement paths. Goals for each key practice area are also provided, and the model presented is fully aligned with the architecture and framework of software development maturity models of CMMI and ISO 15504. It is complete with case studies, figures, tables, and graphs.
Emerging Technologies for Developing Countries - Fatna Belqasmi 2017-10-18
This book constitutes the refereed proceedings of the First International EAI Conference on Emerging Technologies for Developing Countries, AFRICATEK 2017, held in Marrakech, Morocco, in March 2017. The 15 full papers, 5 short papers, 2 invited papers and one poster paper were selected from 41 submissions. The papers are organized thematically in tracks, starting with wireless sensor networks (WSNs), vehicular area networks (VANs) and mobile networks; IoT and cloud computing; big data, data analytics, and knowledge management; processing big data over diverse clouds; Web services and software engineering; security.
Safety and Security of Cyber-Physical Systems - Frank J. Furrer 2022-07-20
Cyber-physical systems (CPSs) consist of software-controlled computing devices communicating with each other and interacting with the physical world through sensors and actuators. A CPS has, therefore, two parts: The cyber part implementing most of the functionality and the physical part, i.e., the real world. Typical examples of CPS's are a water

treatment plant, an unmanned aerial vehicle, and a heart pacemaker. Because most of the functionality is implemented in software, the software is of crucial importance. The software determines the functionality and many CPS properties, such as safety, security, performance, real-time behavior, etc. Therefore, avoiding safety accidents and security incidents in the CPS requires highly dependable software. Methodology Today, many methodologies for developing safe and secure software are in use. As software engineering slowly becomes disciplined and mature, generally accepted construction principles have emerged. This monograph advocates principle-based engineering for the development and operation of dependable software. No new development process is suggested, but integrating security and safety principles into existing development processes is demonstrated. Safety and Security Principles At the core of this monograph are the engineering principles. A total of 62 principles are introduced and catalogized into five categories: Business & organization, general principles, safety, security, and risk management principles. The principles are rigorous, teachable, and enforceable. The terminology used is precisely defined. The material is supported by numerous examples and enriched by illustrative quotes from celebrities in the field. Final Words «In a cyber-physical system's safety and security, any compromise is a planned disaster» Audience First, this monograph is for organizations that want to improve their methodologies to build safe and secure software for mission-critical cyber-physical systems. Second, the material is suitable for a two-semester, 4 hours/week, advanced computer science lecture at a Technical University. This textbook has been recommended and developed for university courses in Germany, Austria and Switzerland.

Towards Analytical Techniques for Optimizing Knowledge Acquisition, Processing, Propagation, and Use in Cyberinfrastructure and Big Data - L. Octavio Lerma 2017-08-19
This book describes analytical techniques for optimizing knowledge acquisition, processing, and propagation, especially in the contexts of cyber-infrastructure and big data. Further, it presents easy-to-use analytical models of knowledge-related processes and their applications. The need for such methods stems from the fact that, when we have to decide where to place sensors, or which algorithm to use for processing the data—we mostly rely on experts' opinions. As a result, the selected knowledge-related methods are often far from ideal. To make better selections, it is necessary to first create easy-to-use models of knowledge-related processes. This is especially important for big data, where traditional numerical methods are unsuitable. The book offers a valuable guide for everyone interested in big data applications: students looking for an overview of related analytical techniques, practitioners interested in applying optimization techniques, and researchers seeking to improve and expand on these techniques.

Information and Software Technologies - Tomas Skersys 2013-11-13
This book constitutes the refereed proceedings of the 18th International Conference on Information and Software Technologies, ICIST 2012, held in Kaunas, Lithuania, in September 2012. The 40 revised full papers presented were carefully reviewed and selected from 81 submissions. The papers are organized in topical sections on artificial intelligence and knowledge engineering, business process modelling, analysis and design, formal analysis and design methods, information and software systems engineering, information technology applications and computer networks, information technology in teaching and learning, ontology, conceptual modelling and databases, requirements engineering and business rules.

Software Evolution - Tom Mens 2008-01-25
This book focuses on novel trends in software evolution research and its relations with other emerging disciplines. Mens and Demeyer, both authorities in the field of software evolution, do not restrict themselves to the evolution of source code but also address the evolution of other, equally important software artifacts. This book is the indispensable source for researchers and professionals looking for an introduction and comprehensive overview of the state-of-the-art.

Software Evolution with UML and XML - Hongji Yang 2005-01-01
This title provides a forum where expert insights are presented on the subject of linking three current phenomena: software evolution, UML and XML.

Software Maintenance Success Recipes - Donald J. Reifer 2016-04-19
Dispelling much of the folklore surrounding software maintenance, Software Maintenance Success Recipes identifies actionable formulas for success based on in-depth analysis of more than 200 real-world maintenance projects. It details the set of factors that are usually present when effective software maintenance teams do their work and instructs on

The China Information Technology Handbook - Patricia Ordóñez de Pablos 2010-03-23
This handbook is a reference for those interested in information technologies and emerging management practices in China. The emphasis on information technologies and management provides a unique proposition and gives characteristics of flexibility and adoption to diverse audiences. The subject area is a combination of global information technology and management along with strategic management of IT. The handbook exploits state-of-the-art and emerging trends in theory and technology. This handbook is primarily designed for a professional and academic audience.

Intelligent Systems in Cybernetics and Automation Control Theory - Radek Silhavy 2018-08-28
This book presents real-world problems and pioneering research that reflect novel approaches to cybernetics, algorithms and software engineering in the context of intelligent systems. It gathers the peer-reviewed proceedings of the 2nd Computational Methods in Systems and Software 2018 (CoMeSySo 2018), a conference that broke down traditional barriers by being held online. The goal of the event was to provide an international forum for discussing the latest high-quality research results.

Cybercrime and Digital Forensics - Thomas J. Holt 2022-05-31
This book offers a comprehensive and integrative introduction to cybercrime. It provides an authoritative synthesis of the disparate literature on the various types of cybercrime, the global investigation and detection of cybercrime and the role of digital information, and the wider role of technology as a facilitator for social relationships between deviants and criminals. It includes coverage of: • key theoretical and methodological perspectives; • computer hacking and malicious software; • digital piracy and intellectual theft; • economic crime and online fraud; • pornography and online sex crime; • cyber-bullying and cyber-stalking; • cyber-terrorism and extremism; • the rise of the Dark Web; • digital forensic investigation and its legal context around the world; • the law enforcement response to cybercrime transnationally; • cybercrime policy and legislation across the globe. The new edition has been revised and updated, featuring two new chapters; the first offering an expanded discussion of cyberwarfare and information operations online, and the second discussing illicit market operations for all sorts of products on both the Open and Dark Web. This book includes lively and engaging features, such as discussion questions, boxed examples of unique events and key figures in offending, quotes from interviews with active offenders, and a full glossary of terms. It is supplemented by a companion website that includes further exercises for students and instructor resources. This text is essential reading for courses on cybercrime, cyber-deviancy, digital forensics, cybercrime investigation, and the sociology of technology.

Future-Proof Software-Systems - Frank J. Furrer 2019-09-25
This book focuses on software architecture and the value of architecture in the development of long-lived, mission-critical, trustworthy software-systems. The author introduces and demonstrates the powerful strategy of "Managed Evolution," along with the engineering best practice known as "Principle-based Architecting." The book examines in detail architecture principles for e.g., Business Value, Changeability, Resilience, and Dependability. The author argues that the software development community has a strong responsibility to produce and operate useful, dependable, and trustworthy software. Software should at the same time provide business value and guarantee many quality-of-service properties, including security, safety, performance, and integrity. As Dr. Furrer states, "Producing dependable software is a balancing act between investing in the implementation of business functionality and investing in the quality-of-service properties of the software-systems." The book presents extensive coverage of such concepts as: Principle-Based Architecting Managed Evolution Strategy The Future Principles for Business Value Legacy Software Modernization/Migration Architecture Principles for Changeability Architecture Principles for Resilience Architecture Principles for Dependability The text is supplemented with numerous figures, tables, examples and illustrative quotations. Future-Proof Software-Systems provides a set of good engineering practices, devised for integration into most software development processes dedicated to the creation of software-systems that incorporate Managed Evolution.

Model-Driven Software Development: Integrating Quality Assurance - Rech, J□rg 2008-08-31

Covers important concepts, issues, trends, methodologies, and technologies in quality assurance for model-driven software development.

Model-Driven Software Migration: A Methodology - Christian Wagner 2014-03-10

Today, reliable software systems are the basis of any business or company. The continuous further development of those systems is the central component in software evolution. It requires a huge amount of time- man power- as well as financial resources. The challenges are size, seniority and heterogeneity of those software systems. Christian Wagner addresses software evolution: the inherent problems and uncertainties in the process. He presents a model-driven method which leads to a synchronization between source code and design. As a result the model layer will be the central part in further evolution and source code becomes a by-product. For the first time a model-driven procedure for maintenance and migration of software systems is described. The procedure is composed of a model-driven reengineering and a model-driven migration phase. The application and effectiveness of the procedure are confirmed with a reference implementation applied to four exemplary systems.

Kill It with Fire - Marianne Bellotti 2021-04-06

Kill It with Fire examines aging computer systems, the evolution of technology over time, and how organizations can modernize, maintain, and future-proof their current systems. "Kill it with fire," the typical first reaction to a legacy system falling into obsolescence, is a knee-jerk approach that often burns through tons of money and time only to result in a less efficient solution. This book offers a far more forgiving modernization framework, laying out smart value-add strategies and proven incremental techniques that work equally well for ancient systems and brand-new ones. Internationally known for restoring some of the world's oldest, messiest computer networks to operational excellence, software engineering expert Marianne Bellotti distills key lessons and insights from her experience into practical, research-backed guidance on topics from "chaos" testing solutions to building momentum-driven teams and effective communication structures. Using clear explanations and simple exercises, she'll help you determine when to modernize, how to organize, what migrations will add the most value, and where to focus your maintenance efforts for maximum impact. With witty, engaging prose, Bellotti explains why new doesn't always mean better, weaving in illuminating case studies and jaw-dropping anecdotes from her work in the field. You'll learn: • Tips and best practices for assessing architecture and testing assumptions • How to avoid trends and pick the right modernization solutions for your specific needs • How to determine whether your migrations will add value before you invest in them • Critical considerations every organization should weigh before moving data to the cloud • Team-based strategies and motivational tricks for keeping modernization plans on track • Key outcomes and checklists for determining when a project is finished Packed with resources, exercises, and flexible frameworks for organizations of all ages and sizes, Kill It with Fire will give you a vested interest in your technology's future.

Computer Systems and Software Engineering: Concepts, Methodologies, Tools, and Applications - Management Association, Information Resources 2017-12-01

Professionals in the interdisciplinary field of computer science focus on the design, operation, and maintenance of computational systems and software. Methodologies and tools of engineering are utilized alongside computer applications to develop efficient and precise information databases. Computer Systems and Software Engineering: Concepts, Methodologies, Tools, and Applications is a comprehensive reference source for the latest scholarly material on trends, techniques, and uses of various technology applications and examines the benefits and challenges of these computational developments. Highlighting a range of pertinent topics such as utility computing, computer security, and information systems applications, this multi-volume book is ideally designed for academicians, researchers, students, web designers, software developers, and practitioners interested in computer systems and software engineering.

ENTERprise Information Systems, Part I - Joao Eduardo Quintela Varajao 2010-12-02

This book constitutes the proceedings of the International Conference on ENTERprise information systems, held Viana do Castelo, Portugal, in October 2010.

The Semantic Web: Research and Applications - Enrico Franconi 2007-06-23

This book constitutes the refereed proceedings of the 4th European Semantic Web Conference, ESWC 2007, held in Innsbruck, Austria, in June 2007. Coverage includes semantic Web services, ontology learning, inference and mapping, social semantic Web, ontologies, personalization, foundations of the semantic Web, natural languages and ontologies, and querying and Web data models.

Information Systems Transformation - William M. Ulrich 2010-02-04

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

Modernizing Legacy Systems - Robert C. Seacord 2003

Most organizations rely on complex enterprise information systems (EISs) to codify their business practices and collect, process, and analyze business data. These EISs are large, heterogeneous, distributed, constantly evolving, dynamic, long-lived, and mission critical. In other words, they are a complicated system of systems. As features are added to an EIS, new technologies and components are selected and integrated. In many ways, these information systems are to an enterprise what a brain is to the higher species--a complex, poorly understood mass upon which the organism relies for its very existence. To optimize business value, these large, complex systems must be modernized--but where does one begin? This book uses an extensive real-world case study (based on the modernization of a thirty year old retail system) to show how modernizing legacy systems can deliver significant business value to any organization.

Migrating Legacy Applications: Challenges in Service Oriented Architecture and Cloud Computing Environments - Ionita, Anca Daniela 2012-11-30

"This book presents a closer look at the partnership between service oriented architecture and cloud computing environments while analyzing potential solutions to challenges related to the migration of legacy applications"--Provided by publisher.

Encyclopedia of Information Science and Technology - Mehdi Khosrow-Pour 2009

"This set of books represents a detailed compendium of authoritative, research-based entries that define the contemporary state of knowledge on technology"--Provided by publisher.

First International Conference on Artificial Intelligence and Cognitive Computing - Raju Surampudi Bapi 2018-11-04

This book presents original research works by researchers, engineers and practitioners in the field of artificial intelligence and cognitive computing. The book is divided into two parts, the first of which focuses on artificial intelligence (AI), knowledge representation, planning, learning, scheduling, perception-reactive AI systems, evolutionary computing and other topics related to intelligent systems and computational intelligence. In turn, the second part focuses on cognitive computing, cognitive science and cognitive informatics. It also discusses applications of cognitive computing in medical informatics, structural health monitoring, computational intelligence, intelligent control systems, bio-informatics, smart manufacturing, smart grids, image/video

processing, video analytics, medical image and signal processing, and knowledge engineering, as well as related applications.

Software Reuse in the Emerging Cloud Computing Era - Yang, Hongji 2012-04-30
"This book clarifies the present fast-advancing literature of the current state of art and knowledge in the areas of the development and reuse of reusable assets in emerging software systems and applications"-- Provided by publisher.

Progress in Advanced Computing and Intelligent Engineering - Chhabi Rani Panigrahi 2018-07-09
This book features high-quality research papers presented at the International Conference on Advanced Computing and Intelligent Engineering (ICACIE 2017). It includes sections describing technical advances in the fields of advanced computing and intelligent engineering, which are based on the presented articles. Intended for postgraduate students and researchers working in the discipline of computer science and engineering, the proceedings also appeal to researchers in the domain of electronics as it covers hardware technologies and future communication technologies.

Natural Language Processing and Information Systems - Zoubida Kedad 2007-06-21
This book constitutes the refereed proceedings of the 12th International Conference on Applications of Natural Language to Information Systems, NLDB 2007, held in Paris, France in June 2007. It covers natural language for database query processing, email management, semantic annotation, text clustering, ontology engineering, natural language for information system design, information retrieval systems, and natural language processing techniques.

Modernizing Legacy Applications in PHP - Paul M. Jones 2016-08-31
Get your code under control in a series of small, specific steps About This Book Learn to extract and replace legacy artifacts, Improve your application from the ground up while keeping your codebase fully operational, Improve the quality of your legacy applications. Who This Book Is For PHP developers from all skill levels will be able to get value from this book and will be able to transform their spaghetti code applications to clean, modular applications. If you are in the midst of a legacy refactor or you find yourself in a state of despair caused by the code you have inherited, this is the book for you. All you need is to have PHP 5.0 installed, and you're all set to change the way you maintain and deploy your code! What You Will Learn Replace global and new with dependency injection Extract SQL statements to gateways Convert action logic to controllers Remove repeated logic in page scripts Create maintainable PHP code from crufty legacy PHP In Detail Have you noticed that your legacy PHP application is composed of page scripts placed directly in the document root of the web server? Or, do your page scripts, along with any other classes and functions, combine the concerns of model, view, and controller into the same scope? Is the majority of the logical flow incorporated as include files and global functions rather than class methods? Working with such a legacy application feels like dragging your feet through mud, doesn't it?This book will show you how to modernize your application in terms of practice and technique, rather than in terms of using tools like frameworks and libraries, by extracting and replacing its legacy artifacts. We will use a step-by-step approach, moving slowly and methodically, to improve your application from the ground up. We'll show you how dependency injection can replace both the new and global dependencies. We'll also show you how to change the presentation logic to view files and the action logic to a controller. Moreover, we'll keep your application running the whole time. Each completed step in the process will keep your codebase fully operational with higher quality. When we are done, you will be able to breeze through your code like the wind. Your code will be autoloaded, dependency-injected, unit-tested, layer-separated, and front-controlled. Most of the very limited code we will add to your application is specific to this book. We will be improving ourselves as programmers, as well as improving the quality of our legacy application. Style and approach This book gives developers an easy-to-follow, practical and powerful process to bring their applications up to a modern baseline. Each step in the book is practical, self-contained and moves you closer to the end goal you seek: maintainable code. As you follow the exercises in the book, the author almost anticipates your questions and you will have the answers, ready to be implemented on your project.

Business Information Systems: Concepts, Methodologies, Tools and Applications - Management Association, Information Resources 2010-06-30
Business Information Systems: Concepts, Methodologies, Tools and

Applications offers a complete view of current business information systems within organizations and the advancements that technology has provided to the business community. This four-volume reference uncovers how technological advancements have revolutionized financial transactions, management infrastructure, and knowledge workers.

Uncovering Essential Software Artifacts through Business Process Archeology - Perez-Castillo, Ricardo 2013-10-31
Corporations accumulate a lot of valuable data and knowledge over time, but storing and maintaining this data can be a logistic and financial headache for business leaders and IT specialists. Uncovering Essential Software Artifacts through Business Process Archaeology introduces an emerging method of software modernization used to effectively manage legacy systems and company operations supported by such systems. This book presents methods, techniques, and new trends on business process archeology as well as some industrial success stories. Business experts, professionals, and researchers working in the field of information and knowledge management will use this reference source to efficiently and effectively implement and utilize business knowledge.

Advances in UML and XML-based Software Evolution - Hongji Yang 2005-01-01
"Reports on the recent advances in UML and XML based software evolution in terms of a wider range of techniques and applications"-- Provided by publisher.

Building Systems from Commercial Components - Kurt C. Wallnau 2002
A principal source of risk in component-based software design, say Wallnau and two other technicians at the institute, Scott A. Hissam and Robert C. Seacord, is a lack of knowledge about how components should be integrated and how they behave when integrated. To mitigate that risk, they introduce several concepts, among them the component ensemble as a design abstraction, blackboards as a fundamental design notation, and a process for exposing design risk. They speak to practicing and student software engineers. c. Book News Inc.

New Trends in Software Methodologies, Tools and Techniques - Hamido Fujita 2005
Presents trends and theories in the direction in which we believe software science and engineering may develop to transform the role of software and science in information society. This series contributes to elaborate on such trends and related academic research studies and development.

Technologies for Business Information Systems - Witold Abramowicz 2007-05-16
The material collected in this book covers a broad range of applications of computer science methods and algorithms in business practice. It presents cutting edge research in development, implementation, and improvement of computer systems. The computer science and information systems topics covered include data warehouses, ERP, XML, ontologies, rule languages, software engineering and Business Process Management.

Software Applications: Concepts, Methodologies, Tools, and Applications - Tiako, Pierre F. 2009-03-31
Includes articles in topic areas such as autonomic computing, operating system architectures, and open source software technologies and applications.

Component-Based Software Engineering - Lars Grunske 2010-06-11
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.

Generative and Transformational Techniques in Software Engineering - Ralf Lämmel 2006-09-29

This tutorial book presents an augmented selection of material presented at the International Summer School on Generative and Transformational Techniques in Software Engineering, GTTSE 2005. The book comprises 7 tutorial lectures presented together with 8 technology presentations and 6 contributions to the participants workshop. The tutorials combine foundations, methods, examples, and tool support. Subjects covered include feature-oriented programming and the AHEAD tool suite; program transformation with reflection and aspect-oriented programming, and more.