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This book gathers together a critical body of knowledge on what enterprise architecture (EA) is and how it can be used to better organize the functions of systems across an enterprise for an effective business-IT alignment. The chapters provide a solid foundation for a cross-disciplinary professional practice. "Analysis of the distributional impact of policy reforms plays an important role in the elaboration and implementation of poverty reduction strategies in developing and transitional countries, promoting evidence-based policy choices and fostering debate on policy reform options. International agencies and national partners are increasingly encouraging a more systematic application of policy reform analysis. Requisite to a systematic application is capacity building within countries as well as within donor agencies." "Tools for Institutional, Political, and Social Analysis of Policy Reform: A Sourcebook for Development Practitioners contributes to this agenda by introducing a framework and a set of practical tools that analyze the institutional, political, and social dimensions of policy design and implementation. The authors fill a perceived gap in knowledge of the application of social tools and complement existing guidance on conventional economic analysis of distributional impacts of reform." "This book will be of interest to commissioners and practitioners working in policy analysis in a range of areas - including macroeconomic, sectoral, and public sector policy - that are subject to ongoing policy reform discussions."--BOOK JACKET.

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Although framework technology has proven its worth as a software reuse technique in many domains, there have been reservations regarding its application in embedded systems, mostly due to limited CPU and memory resources. Recent hardware advances, however, have changed this picture. This book shows how object-oriented software frameworks can be applied to embedded control systems. A case study of a framework using a set of application dependent design patterns for the orbit control system of satellites is presented. The censorship and surveillance of individuals, societies, and countries have been a long-debated ethical and moral issue. In consequence, it is vital to explore this controversial topic from all angles. *Censorship, Surveillance, and Privacy: Concepts, Methodologies, Tools, and Applications* is a vital reference source on the social, moral, religious, and political aspects of censorship and surveillance. It also explores the techniques of technologically supported censorship and surveillance. Highlighting a range of topics such as political censorship, propaganda, and information privacy, this multi-volume book is geared towards government officials, leaders, professionals, policymakers, media specialists, academicians, and researchers interested in the various facets of censorship and surveillance.

Historically, regulations governing chemical use have often focused on widely used chemicals and acute human health effects of exposure to them, as well as their potential to cause cancer and other adverse health effects. As scientific knowledge has expanded there has been an increased awareness of the mechanisms through which chemicals may exert harmful effects on human health, as well as their effects on other species and ecosystems. Identification of high-priority chemicals and other chemicals of concern has prompted a growing number of state and local governments, as well as major companies, to take steps beyond existing

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hazardous chemical federal legislation. Interest in approaches and policies that ensure that any new substances substituted for chemicals of concern are assessed as carefully and thoroughly as possible has also burgeoned. The overarching goal of these approaches is to avoid regrettable substitutions, which occur when a toxic chemical is replaced by another chemical that later proved unsuitable because of persistence, bioaccumulation, toxicity, or other concerns. Chemical alternative assessments are tools designed to facilitate consideration of these factors to assist stakeholders in identifying chemicals that may have the greatest likelihood of harm to human and ecological health, and to provide guidance on how the industry may develop and adopt safer alternatives. A Framework to Guide Selection of Chemical Alternatives develops and demonstrates a decision framework for evaluating potentially safer substitute chemicals as primarily determined by human health and ecological risks. This new framework is informed by previous efforts by regulatory agencies, academic institutions, and others to develop alternative assessment frameworks that could be operationalized. In addition to hazard assessments, the framework incorporates steps for life-cycle thinking - which considers possible impacts of a chemical at all stages including production, use, and disposal - as well as steps for performance and economic assessments. The report also highlights how modern information sources such as computational modeling can supplement traditional toxicology data in the assessment process. This new framework allows the evaluation of the full range of benefits and shortcomings of substitutes, and examination of tradeoffs between these risks and factors such as product functionality, product efficacy, process safety, and resource use. Through case studies, this report demonstrates how different users in contrasting decision contexts with diverse priorities can apply

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the framework. This report will be an essential resource to the chemical industry, environmentalists, ecologists, and state and local governments.

The first Enterprise Architecture book that compares the 14 most popular Enterprise Architecture Frameworks in the world. A unique book for CIO's, Enterprise Architects and all others interested in EA.

Written by leading researchers from around the world, these papers from the fourth in the series of international conferences critically explore and analyze library and information science as a discipline and field of research from historical, philosophical, theoretical, and methodological perspectives. This compilation presents the latest in both conceptual and practical developments and approaches in library and information science, in particular in the areas of information interaction, infometric approaches, and information retrieval.

Human resources management is essential for any workplace environment and is deemed most effective when a strategic focus is in place to ensure that people can facilitate that achievement of organizational goals. But, effective human resource management also contains an element of risk management for an organization which, as a minimum, ensures legislative compliance. Human Resources Management: Concepts, Methodologies, Tools, and Applications compiles the most sought after case studies, architectures, frameworks, methodologies, and research related to human resources management. Including over 100 chapters from professional, this three-volume collection presents an in-depth analysis on the fundamental aspects, tools and technologies, methods and design, applications, managerial impact, social/behavioral perspectives, critical issues, and emerging trends in the field, touching on effective and ineffective management practices when it comes to

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human resources. This multi-volume work is vital and highly accessible across the hybrid domain of business and management, essential for any library collection.

Health literacy can be defined as the capacity of individuals families and communities to access understand appraise and apply health information in order to make judgements and take decisions in everyday life concerning health care disease prevention and health promotion in order to maintain or improve their quality of life. It is considered to be a social determinant of health and one of the key pillars in health promotion. Low health literacy is associated with poorer health more illness and health inequalities and it may make health systems less cost-effective. Evidence from the 2011 health literacy survey indicated that almost half of the adult population in eight Member States of the European Union had suboptimal general health literacy. Responses have included initiation of health literacy networks policies programmes and interventions at the regional national and organizational levels. These initiatives require monitoring using frameworks and indicator sets that produce consistent and comparable population data and evaluation to determine the effectiveness of the policies and interventions.

Most people who write software have at least some experience with unit testing-even if they don't call it that. If you have ever written a few lines of throwaway code just to try something out, you've built a unit test. On the other end of the software spectrum, many large-scale applications have huge batteries of test cases that are repeatedly run and added to throughout the development

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process. What are unit test frameworks and how are they used? Simply stated, they are software tools to support writing and running unit tests, including a foundation on which to build tests and the functionality to execute the tests and report their results. They are not solely tools for testing; they can also be used as development tools on a par with preprocessors and debuggers. Unit test frameworks can contribute to almost every stage of software development and are key tools for doing Agile Development and building big-free code. Unit Test Frameworks covers the usage, philosophy, and architecture of unit test frameworks. Tutorials and example code are platform-independent and compatible with Windows, Mac OS X, Unix, and Linux. The companion CD includes complete versions of JUnit, CppUnit, NUnit, and XMLUnit, as well as the complete set of code examples.

This volume is the fourth part of a four-volume set (CCIS 190, CCIS 191, CCIS 192, CCIS 193), which constitutes the refereed proceedings of the First International Conference on Computing and Communications, ACC 2011, held in Kochi, India, in July 2011. The 62 revised full papers presented in this volume were carefully reviewed and selected from a large number of submissions. The papers are the papers of the Workshop on Cloud Computing: Architecture, Algorithms and Applications (CloudComp2011), of the Workshop on Multimedia Streaming (MultiStreams2011), and of the Workshop on Trust Management in P2P Systems (IWTMP2PS2011).

The research textbook surveys the field for young HCI

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researchers who are making their way in the world of research.

Industrial engineering affects all levels of society, with innovations in manufacturing and other forms of engineering oftentimes spawning cultural or educational shifts along with new technologies. Industrial Engineering: Concepts, Methodologies, Tools, and Applications serves as a vital compendium of research, detailing the latest research, theories, and case studies on industrial engineering. Bringing together contributions from authors around the world, this three-volume collection represents the most sophisticated research and developments from the field of industrial engineering and will prove a valuable resource for researchers, academics, and practitioners alike.

Decision-making, creativity and evaluation need to be supported by formal, structured methods. This edited work will explore the process and then present a range of frameworks, hard and soft methods, and models capable of supporting the process.

These proceedings present the results of the Eleventh International Conference on Dependability and Complex Systems DepCoS-RELCOMEX which took place in a picturesque Brunów Palace in Poland from 27th June to 1st July, 2016. DepCoS-RELCOMEX is a series of international conferences organized annually by Department of Computer Engineering of Wrocław University of Science and Technology since 2006. The roots of the series go as far back as to the seventies of the previous century – the first RELCOMEX conference took place in 1977 – and now its main aim is to promote

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a multi-disciplinary approach to dependability problems in theory and engineering practice of complex systems. Complex systems, nowadays most often computer-based and distributed, are built upon a variety of technical, information, software and human resources. The challenges in their design, analysis and maintenance not only originate from the involved technical and organizational structures but also from the complexity of the information processes that must be efficiently executed in a diverse, often hostile operational environment. Traditional methods of reliability evaluation focused only on technical resources are usually insufficient in this context and more innovative, multidisciplinary methods of dependability analysis must be applied. The diversity of the topics which need to be considered is well illustrated by the selection of the submissions in these proceedings with their subjects ranging from mathematical models and design methodologies through software engineering and data security issues up to practical problems in technical, e.g. transportation, systems.

This book contains a selection of papers from The 2015 International Conference on Software Process Improvement (CIMPS'15), held between the 28th and 30th of October in Mazatlán, Sinaloa, México. The CIMPS'15 is a global forum for researchers and practitioners that present and discuss the most recent innovations, trends, results, experiences and concerns in the several perspectives of Software Engineering with clear relationship but not limited to software processes, Security in Information and Communication Technology



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and Big Data Field. The main topics covered are:

Organizational Models, Standards and Methodologies, Knowledge Management, Software Systems, Applications and Tools, Information and Communication Technologies and Processes in non-software domains (Mining, automotive, aerospace, business, health care, manufacturing, etc.) with a demonstrated relationship to software process challenges.

Governance Frameworks for Public Project Development and Estimation includes a thorough investigation into theoretical perspectives and theories, mainly from economy and social sciences. Thirty-two aspects of theory are assessed, and it is indicated whether each framework design seems to have put weak or strong emphasis on each of these aspects. The purpose of the report is to seek better understanding of how the governance framework and the projects interact and how the framework influences the project. Governance frameworks help to improve the initial and fundamental design of projects as well as avoid some of the common problems related to the implementation of projects. Implementation of governance frameworks represents a potential for considerable savings and added value by making cost estimation and time planning more effective.

Frameworks, Methodologies, and Tools for Developing Rich Internet Applications IGI Global  
The delivery of quality education to students relies

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heavily on the actions of an institution's administrative staff. Effective leadership strategies allow for the continued progress of modern educational initiatives. Educational Leadership and Administration: Concepts, Methodologies, Tools, and Applications provides comprehensive research perspectives on the multi-faceted issues of leadership and administration considerations within the education sector. Emphasizing theoretical frameworks, emerging strategic initiatives, and future outlooks, this publication is an ideal reference source for educators, professionals, school administrators, researchers, and practitioners in the field of education.

"This book presents current research and analysis on the use of JavaScript and software development to establish new programs intended for the Web, offering an in-depth look at computer and Web programming"--

As the world rapidly moves online, sectors from management, industry, government, and education have broadly begun to virtualize the way people interact and learn. Virtual Learning Environments: Concepts, Methodologies, Tools and Applications is a three-volume compendium of the latest research, case studies, theories, and methodologies within the field of virtual learning environments. As networks get faster, cheaper, safer, and more reliable, their applications grow at a rate that makes it difficult for

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the typical practitioner to keep abreast. With a wide range of subjects, spanning from authors across the globe and with applications at different levels of education and higher learning, this reference guide serves academics and practitioners alike, indexed and categorized easily for study and application. Agent Technology, or Agent-Based Approaches, is a new paradigm for developing software applications. It has been hailed as 'the next significant breakthrough in software development', and 'the new revolution in software' after object technology or object-oriented programming. In this context, an agent is a computer system which is capable of act Constructing the Infrastructure for the Knowledge Economy: Methods and Tools, Theory and Practice is the proceedings of the 12th International Conference on Information Systems Development, held in Melbourne, Australia, August 29-31, 2003. The purpose of these proceedings is to provide a forum for research and practice addressing current issues associated with Information Systems Development (ISD). ISD is undergoing dramatic transformation; every day, new technologies, applications, and methods raise the standards for the quality of systems expected by organizations as well as end users. All are becoming more dependent on the systems reliability, scalability, and performance. Thus, it is crucial to exchange ideas and experiences, and to stimulate exploration of new

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solutions. This proceedings provides a forum for just that, addressing both technical and organizational issues.

Technological advances in the field of IT lead to the creation of new programs intended to merge the advantages of desktop-based programs with the advantages of Web-based programs in order to increase user accessibility and provide effective computer performance. Frameworks, Methodologies, and Tools for Developing Rich Internet Applications presents current research and analysis on the use of JavaScript and software development to establish new programs intended for the Web. With an in-depth look at computer and Web programming, this publication emphasizes the benefits and dynamic qualities of these emerging technologies. This book is an essential reference source for academicians, researchers, students, practitioners, and professionals interested in understanding and applying the advances in the combined fields of Web engineering and desktop programming in order to increase computer users' visual experience and interactivity.

In recent years, the science of managing and analyzing large datasets has emerged as a critical area of research. In the race to answer vital questions and make knowledgeable decisions, impressive amounts of data are now being generated at a rapid pace, increasing the opportunities and challenges associated with the ability to effectively analyze this data.

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This Pocket Guide is a concise summary of the Frameworks for IT Management. A quick, portable reference tool to the standards used within the Service Management community. English version available: September 2007, Dutch, French, Japanese, Spanish, German available February 2008.

This three-volume collection, titled Enterprise Information Systems: Concepts, Methodologies, Tools and Applications, provides a complete assessment of the latest developments in enterprise information systems research, including development, design, and emerging methodologies. Experts in the field cover all aspects of enterprise resource planning (ERP), e-commerce, and organizational, social and technological implications of enterprise information systems. The emergence of e-government allows for effective governance, increased transparency, better management, and efficient services through the use of the internet and information and communication technologies. Therefore, world governments are mobilizing large amounts of resources in order to implement and promote the use of e-government. Developing E-Government Projects: Frameworks and Methodologies presents frameworks and methodologies for strategies towards the design, implementation, and adoption of e-government projects. By providing best practices in the successful adoption of e-government, this book is essential for policy makers, practitioners, researchers, and students interested in the approaches utilized for the successful implementation of e-government projects.

This book provides insights into the research in the fields of artificial intelligence in combination with Internet of Things (IoT) technologies. Today, the integration of artificial intelligence and IoT technologies is attracting considerable interest from both researchers and developers from academic fields and industries around the globe. It is foreseeable that the next generation of IoT research will focus on artificial

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intelligence/beyond artificial intelligence approaches. The rapidly growing numbers of artificial intelligence algorithms and big data solutions have significantly increased the number of potential applications for IoT technologies, but they have also created new challenges for the artificial intelligence community. This book shares the latest scientific advances in this area.

"This multi-volume book delves into the many applications of information technology ranging from digitizing patient records to high-performance computing, to medical imaging and diagnostic technologies, and much more"--

The changes the earth is currently undertaking has been at the forefront of scientific discourse in recent years. Humans as a species have needed to react to these changes and shift their behavior accordingly. *Innovative Strategies and Frameworks in Climate Change Adaptation: Emerging Research and Opportunities* is a critical scholarly resource that examines the relationship between humans and the changing earth as well as the ways in which humans react to these shifts. Featuring coverage on a wide range of topics such as neo-behaviorism, adaptation narrative, and taxonomy, this book is geared toward researchers, students, and academicians seeking current research on the human response to shifting conditions on the earth.

This is a single-volume guide to all the main analytical frameworks for gender-sensitive research and planning. It draws on the experience of trainers and practitioners, and includes step-by-step instructions for using the frameworks. *Revealing Architectural Design* examines the architectural design process from the point of view of knowledge domains, domain syntax, coherence, framing, thinking styles, decision-making and testing. Using straightforward language, the book connects general design thinking to underlying frameworks that are used in the architectural design process. The book

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provides historical grounding as well as clear examples of real design outcomes. It includes diagrams and explanations to make that content accessible. The frameworks and their methods are described by what they can accomplish, what biases they introduce and the use of their final outcomes. Revealing Architectural Design is an advanced primer useful to anyone interested in increasing the quality of their architectural design proposals through understanding the conceptual tools used to achieve that process. While it is intended for undergraduate and graduate students of architectural design, it will also be useful for experienced architectural practitioners. For the non-architect, this book opens a window into the priorities of a discipline seldom presented with such transparency.

Volume 27 of Advances in Management Accounting examines a broad spectrum of current topics in management accounting.

This volume provides a comprehensive account of project-based language learning (PBL) which showcases key theoretical approaches, empirical research, technological tools, and research-based frameworks to help further PBL implementation and research. Taking its cue from the conclusions drawn from project-based learning more broadly, which point to the impact of project-based work on learning and development, discourse socialization, subject engagement, and collaborative skills, the book highlights how these discussions might be extended and enhanced within the context of language learning. The volume begins with discussions of philosophical and theoretical models of PBL and is followed by case studies from contributors from a range of learning contexts and geographic regions which demonstrate these models in practice, with a focus on the implementation of technology in such instances. The book also introduces resources for aligning projects with

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government standards in the classroom but also frameworks for researching and assessing PBL. This comprehensive collection is essential reading for students and researchers in language learning and teaching, language education, curriculum design, and applied linguistics.

Educators play a significant role in the intellectual and social development of children and young adults. Next-generation teachers can only be as strong as their own educational foundation which serves to cultivate their knowledge of the learning process, uncover best practices in the field of education, and employ leadership abilities that will inspire students of all ages. *Teacher Education: Concepts, Methodologies, Tools, and Applications* explores the current state of pre-service teacher programs as well as continuing education initiatives for in-service educators. Emphasizing the growing role of technology in teacher skill development and training as well as key teaching methods and pedagogical developments, this multi-volume work compiles research essential to higher education professionals and administrators, educational software developers, and researchers studying pre-service and in-service teacher training.

As modern technologies continue to develop and evolve, the ability of users to interface with new systems becomes a paramount concern. Research into new ways for humans to make use of advanced computers and other such technologies is necessary to fully realize the potential of 21st century tools. *Human-Computer Interaction: Concepts, Methodologies, Tools, and Applications* gathers research on user interfaces for advanced technologies and how these interfaces can facilitate new developments in the fields of robotics, assistive technologies, and computational intelligence. This four-volume reference contains cutting-edge research for computer scientists; faculty and students of



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robotics, digital science, and networked communications; and clinicians invested in assistive technologies. This seminal

reference work includes chapters on topics pertaining to system usability, interactive design, mobile interfaces, virtual worlds, and more.

"This book provides a comprehensive examination of interactivity, combining key perspectives from communication and media studies, distributed cognition, system affordances, user control, and social interaction, intended for researchers working in the fields of communication and media, educational media, e-learning, and instructional technology"--Provided by publisher.

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