Enterprise Architecture Program Gartner Inc

This volume constitutes the proceedings of the 5th International Workshop on Trends in Enterprise Architecture Research (TEAR), held in Delft, The Netherlands, on November 12, 2010. The main objective of the workshop is to identify major trends and challenges in enterprise architecture research by providing a discussion forum where researchers and practitioners can exchange experiences, problems, and ideas. The 7 papers presented were extensively reviewed and selected from 15 submissions. They report on core concepts and the effectiveness of enterprise architecture, on architecture description languages, and on exemplary case studies.

An update to the 1st Edition, the 2nd Edition of the Enterprise Architecture Sourcebook Volume 1 has been completely revised and updated. It addresses twelve of the most popular commercial, government, and defense-related architecture frameworks and the two standard architecture development approaches: product-centric and data-centric. It provides a comprehensive overview of the current state of architecture practice.

Rapidly changing market, technological, and organizational environments are forcing government and private sector enterprises to improve services and transform processes. Employing a case study approach, the Enterprise Dynamics Sourcebook presents frameworks and analytical models of the enterprise as a complex system to improve your understanding o

Why collaborative enterprise architecture? -- What is enterprise architecture -- What enterprise architects do: core activities of EA -- EA frameworks -- EA maturity models --

Foundations of collaborative EA -- Towards pragmatism: lean and agile EA -- Inviting to participation: eam 2.0 -- The next steps: taking collaborative EA forward.

This book defines and discusses how the field of Enterprise Architecture (EA) can be incorporated into the design of Enterprise Geographic Information Systems (EGIS). The objective of EA is to develop a strategic plan that structures an organization's resources (data, information, people, and assets) into one team that works together to achieve the company's objectives in an efficient, agile, and adaptable way. It demonstrates how EA concepts can be incorporated within EGIS by improving the system's efficiency and reliability. Through real-world examples and step-by-step explanations, the reader will reach a comfortable understanding of the theories and methods discussed in the book.

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.

There has never been a Enterprise Architecture manual like this. Enterprise Architecture 78 Success Secrets is not about the ins and outs of Enterprise Architecture. Instead, it answers the top 78 questions that we are asked and those we come across in forums, our consultancy and education programs. It tells you exactly how to deal with those questions, with tips that have never before been offered in print. This guidebook is also not about Enterprise Architecture best practice and standards details. Instead it introduces everything you want to know to be successful with Enterprise Architecture. A quick look inside of the subjects covered: Enterprise Architecture Planning: Its Purpose and Definition, Integrated Architecture Framework The Early Stage of Enterprise Architecture, Framework For Success in

Enterprise Architecture, Enterprise Architecture Design The Four Domains of FDA, A General Overview of Enterprise Architecture, The Importance of IT Enterprise Architecture, Net Enterprise Architecture: Simplifying Application Distribution, What is Enterprise Architecture PPT?, Everything Good Comes out of Enterprise Architecture Development, The Two Types of Enterprise Architecture Certification, The Ups, Downs and Roundabouts of an Enterprise Architecture Diagram, Enterprise architecture has been gaining popularity because of its obvious benefits to organizations, Gartner Enterprise Architecture Summit: Reflecting the Developments in IT Architecture, What DoD Enterprise Architecture Brings, DHS Enterprise Architecture: Solving Inter-organizational Issues and Concerns, Doing Enterprise Architecture with Sparx Enterprise Architect, The Requirements for Enterprise Architecture Integration, Developing of Enterprise Architecture Strategy is Important, Maturity Issues? Not a Problem in Enterprise Architecture, What Is Business Enterprise Architecture?, A Quick Look at an Enterprise Architecture Model, Enterprise Architecture Assessment: Evaluating the Lessons of Architecture Projects, The Federal Enterprise Architecture, Enterprise Architecture Conference Collaborating with EA Advocates around the World, Using Patterns of Enterprise Architecture: Not Just A Mere Copy And Paste, Different Enterprise Architecture Jobs According to TOGAF, A Sun Enterprise Architect Plus Company EA Team Equals Better Enterprise Architecture, DoDAF Enterprise Architecture: Providing Solutions to Large Organization, Key Considerations in Enterprise Architecture Models, How An Enterprise Architecture Program Can Provide Solid Solutions, Why Modeling in Enterprise Architecture Can Encourage Success, Like architecture summit, the enterprise architecture conferences provide great knowledge value for, and much more...

Organizational complexity is an unavoidable aspect of all businesses, even larger ones, which can hinder their ability to react to sudden or disruptive change. However, with the implementation of enterprise architecture (EA), businesses are able to provide their leaders with the resources needed to address any arising challenges. A Systemic Perspective to Managing Complexity with Enterprise Architecture highlights the current advances in utilizing enterprise architecture for managing organizational complexity. By demonstrating the value and usefulness of EA, this book serves as a reference for business leaders, managers, engineers, enterprise architects, and many others interested in new research and approaches to business complexity.

This document brings together a set of latest data points and publicly available information relevant for Digital Customer Experience Industry. We are very excited to share this content and believe that readers will benefit from this periodic publication immensely.

Driven by the need and desire to reduce costs, organizations are faced with a set of decisions that require analytical scrutiny. Enterprise Architecture A to Z: Frameworks, Business Process Modeling, SOA, and Infrastructure Technology examines cost-saving trends in architecture planning, administration, and management. To establish a framework for discussion, this book begins by evaluating the role of Enterprise Architecture Planning and Service-Oriented Architecture (SOA) modeling. It provides an extensive review of the most widely deployed architecture framework models. In particular, the book discusses The Open Group Architecture Framework (TOGAF) and the Zachman Architectural Framework (ZAF) in detail, as well as

formal architecture standards and all four layers of these models: the business architecture, the information architecture, the solution architecture, and the technology architecture. The first part of the text focuses on the upper layers of the architecture framework, while the second part focuses on the technology architecture. In this second section, the author presents an assessment of storage technologies and networking and addresses regulatory and security issues. Additional coverage includes high-speed communication mechanisms such as Ethernet, WAN and Internet communication technologies, broadband communications, and chargeback models. Daniel Minoli has written a number of columns and books on the high-tech industry and has many years of technical hands-on and managerial experience at top financial companies and telecom/networking providers. He brings a wealth of knowledge and practical experience to these pages. By reviewing the strategies in this book, CIOs, CTOs, and senior managers are empowered by a set of progressive approaches to designing state-of-the-art IT data centers. This book constitutes the proceedings of the 4th EuroSymposium on Systems Analysis and Design, SIGSAND/PLAIS 2011, held in Gda?sk, Poland, in September 2011. The objective of this symposium is to promote and develop high-quality research on all issues related to systems analysis and design (SAND). It provides a forum for SAND researchers and practitioners in Europe and beyond to interact, collaborate, and develop their field. The 9 papers were carefully reviewed and selected from 20 submissions. An additional revision

took place after the conference to incorporate discussion results from the presentation. The contributions are organized into topical sections on business process modeling, integrated systems development, and software development.

This book constitutes the proceedings of the 4th Enterprise Engineering Working Conference (EEWC), held in Funchal, Madeira Island, Portugal, during May 5-8, 2014. EEWC aims at addressing the challenges that modern and complex enterprises are facing in a rapidly changing world. The participants of the working conference share a belief that dealing with these challenges requires rigorous and scientific solutions, focusing on the design and engineering of enterprises. The goal of EEWC is to stimulate interaction between the different stakeholders, scientists, as well as practitioners, interested in making enterprise engineering a reality. The 13 papers presented were carefully reviewed and selected for inclusion in the book. EEWC 2014 had 42 submissions and accepted 13 for publication. The topics of the presented papers allowed for active participation in interesting discussions and exchange of ideas and stimulated future cooperation among the participants. This made EEWC a real "working conference" contributing to the further development of enterprise engineering as a mature discipline. Topics covered include: enterprise engineering in general, the DEMO methodology, the REA ontology, financial applications, business processes management and enterprise simulation.

"This book examines current, state-of-the-art research in

the area of service sectors and their interactions, linkages, applications, and support using information systems"--Provided by publisher.
Organizations today exist in an environment of unprecedented change. They do so against a backdrop of a global, competitive marketplace, the fast-paced enablement of technology, amplified regulation and accelerating organizational complexity. Many organizations are addressing change in a sub-optimal way and they are operating without a clear view of where their operational risks lie. It is these dynamics that are leading organizations to recognise and embrace Business Architecture. Despite this environment, Business Architecture can be a difficult 'sell' - it is often perceived to be abstract and lacking in tangible delivery. To succeed, Business Architecture must be pragmatic and, to be sustainable, it must focus on achieving long-term value and, at the same time, recognise the shorter-term tactical needs of the organisation. With these challenges in mind, this book provides a practical guide on how to employ Business Architecture and how to build a balanced proposition that delivers value to a broad range of stakeholders. As the book states, Business Architecture should not be practised in isolation, nor should it be thought of as a one-off process; it needs to be woven into the fabric of the organization. And so the authors illustrate the opportunities for weaving the Business Architecture Practice into this fabric through the various stakeholders and life cycles that exist, both formally and informally, within an organization. Whilst recognizing best practice,

this book explores a new, inspirational level of Business Architecture whilst acknowledging that the best way to realize the vision is one step at a time.

"This book explores the latest empirical research and best real-world practices for preventing, weathering, and recovering from disasters such as earthquakes or tsunamis to nuclear disasters and cyber terrorism"--Provided by publisher.

This book provides a platform for addressing human factors in software and systems engineering, both pushing the boundaries of current research and responding to new challenges, fostering new research ideas in the process. Topics include evolutionary and complex systems, human systems integration, smart grids and infrastructure, workforce training requirements, systems engineering education, and defense and aerospace. Based on the AHFE 2017 International Conference on Human Factors, Software, and Systems Engineering, held on July 17–21, 2017, Los Angeles, USA, this book is an inspiring guide for all researchers and professionals in the field of human factors, software and systems engineering.

Describes the principles and methodologies for crafting and executing a successful business-aligned IT strategy to provide businesses with value delivery.

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.

Crisis Management: Concepts, Methodologies, Tools, and ApplicationsConcepts, Methodologies, Tools, and ApplicationsIGI Global

This edited volume covers essential and recent development in the engineering and management of data centers. Data centers are complex systems requiring ongoing support, and their high value for keeping business continuity operations is crucial. The book presents core topics on the planning, design, implementation, operation and control, and sustainability of a data center from a didactical and practitioner viewpoint. Chapters include: · Foundations of data centers: Key Concepts and Taxonomies · ITSDM: A Methodology for IT Services Design · Managing Risks on Data Centers through Dashboards · Risk Analysis in Data Center Disaster Recovery Plans · Best practices in Data Center Management Case: KIO Networks · QoS in NaaS (Network as a Service) using Software Defined Networking · Optimization of Data Center Fault-Tolerance Design · Energetic Data Centre Design Considering Energy Efficiency Improvements During Operation · Demand-side Flexibility and Supply-side

Management: The Use Case of Data Centers and Energy Utilities · DevOps: Foundations and its Utilization in Data Centers · Sustainable and Resilient Network Infrastructure Design for Cloud Data Centres · Application Software in Cloud-Ready Data Centers This book bridges the gap between academia and the industry, offering essential reading for practitioners in data centers, researchers in the area, and faculty teaching related courses on data centers. The book can be used as a complementary text for traditional courses on Computer Networks, as well as innovative courses on IT Architecture, IT Service Management, IT Operations, and Data Centers.

Organizations are facing an engagement crisis. Regardless if they are customers, employees, patients, students, citizens, stakeholders, organizations struggle to meaningfully engage their key constituent groups who have a precious and limited resource: their time. Not surprisingly, these stakeholders have developed deflector shields to protect themselves. Only a privileged few organizations are allowed to penetrate the shield, and even less will meaningfully engage. To penetrate the shield, and engage the audience, organizations need an edge. Gamification has emerged as a way to gain that edge and organizations are beginning to see it as a key tool in their digital engagement strategy. While gamification has tremendous potential to break through, most companies will get it wrong. Gartner predicts that by 2014, 80% of current gamified applications will fail to meet business objectives primarily due to poor design. As a trend, gamification is at the peak of the hype cycle;

it has been oversold and it is broadly misunderstood. We are heading for the inevitable fall. Too many organizations have been led to believe that gamification is a magic elixir for indoctrinating the masses and manipulating them to do their bidding. These organizations are mistaking people for puppets, and these transparently cynical efforts are doomed to fail. This book goes beyond the hype and focuses on the 20% that are getting it right. We have spoken to hundreds of leaders in organizations around the world about their gamification strategies and we have seen some spectacular successes. The book examines some of these successes and identifies the common characteristics of these initiatives to define the solution space for success. It is a guide written for leaders of gamification initiatives to help them avoid the pitfalls and employ the best practices, to ensure they join the 20% that gets it right. Gamify shows gamification in action: as a powerful approach to engaging and motivating people to achieving their goals, while at the same time achieving organizational objectives. It can be used to motivate people to change behaviors, develop skills, and drive innovation. The sweet spot for gamification objectives is the space where the business objectives and player objectives are aligned. Like two sides of the same coin, player and business goals may outwardly appear different, but they are often the same thing, expressed different ways. The key to gamification success is to engage people on an emotional level and motivating them to achieve their goals.
ICEM2014 is to offer scholars, professionals, academics

and graduate students to present, share, and discuss their studies from various perspectives in the aspects of social science. The ICEM2014 is hosted by Advance Information Science Research Center and is sponsored by DEStech Publication, Inc., South China University of Technology, Guangdong University of Foreign Studies. This proceedings tends to collect the up-to-date, comprehensive and worldwide state-of-art knowledge on economics and management. All of accepted papers were subjected to strict peer- reviewing by 2–4 expert referees. The papers have been selected for this proceedings based on originality, significance, and clarity for the purpose of the conference. The selected papers and additional late-breaking contributions to be presented will make an exciting technical program on conference. The conference program is extremely rich, featuring high-impact presentation. We hope this conference will not only provide the participants a broad overview of the latest research results on economics and management, but also provide the participants a significant platform to build academic connections. ICEM2014 would like to express our sincere appreciations to all authors for their contributions to this conference. We would like to extend our thanks to all the referees for their constructive comments on all papers; especially, we would like to thank to organizing committee for their hard working.

This book constitutes the thoroughly refereed papers presented at five international workshops held in conjunction with the 6th International Conference on Service-Oriented Computing, ICSOC 2008, in Sydney,

Australia, in December 2008. The volume contains 41 reviewed and improved papers presented at the 4th International Workshop on Engineering Service-Oriented Applications (WESOA 2008), the Second International Workshop on Web APIs and Services Mashups (Mashups 2008), the First International Workshop on Quality-of-Service Concerns in Service Oriented Architectures (QoSCSOA 2008), the First Workshop on Enabling Service Business Ecosystems (ESBE 2008), and the Third International Workshop on Trends in Enterprise Architecture Research (TEAR 2008). The papers offer a wide range of hot topics in service-oriented computing: management and analysis of SOA processes; development of mashups; QoS and trust models in service-oriented multi-agent systems; service ecosystems, service standardization, and evolutionary changes of Web services; governance aspects of SOA, enterprise models and architectures.

Praise for Service-Oriented Architecture Compass "A comprehensive roadmap to Service-Oriented Architecture (SOA). SOA is, in reality, a business architecture to be used by those enterprises intending to prosper in the 21st century. Decision makers who desire that their business become flexible can jumpstart that process by adopting the best practices and rules of thumb described in SOA Compass." -Bob Laird, MCI IT Chief Architect "The book Service-Oriented Architecture Compass shows very clearly by means of real projects how agile business processes can be implemented using Service-Oriented Architectures. The entire development cycle from planning through implementation is presented

very close to practice and the critical success factors are presented very convincingly." -Professor Dr. Thomas Obermeier, Vice Dean of FHDW Bergisch Gladbach, Germany "This book is a major improvement in the field. It gives a clear view and all the key points on how to really face a SOA deployment in today's organizations." -Mario Moreno, IT Architect Leader, Generali France "Service-Oriented Architecture enables organizations to be agile and flexible enough to adopt new business strategies and produce new services to overcome the challenges created by business dynamism today. CIOs have to consider SOA as a foundation of their Enterprise Applications Architecture primarily because it demonstrates that IT aligns to business processes and also because it positions IT as a service enabler and maximizes previous investments on business applications. To understand and profit from SOA, this book provides CIOs with the necessary concepts and knowledge needed to understand and adapt it into their IT organizations." -Sabri Hamed Al-Azazi, CIO of Dubai Holding, Sabri "I am extremely impressed by the depth and scale of this book! The title is perfect-when you know where you want to go, you need a compass to guide you there! After good IT strategy leads you to SOA, this book is the perfect vehicle that will drive you from dream to reality. We in DSK Bank will use it as our SOA bible in the ongoing project." -Miro Vichev, CIO, DSK Bank, Bulgaria, member of OTP Group "Service-Oriented Architecture offers a pathway to networking of intra- and inter-corporate business systems. The standards have the potential to create far more flexible

and resilient business information systems than have been possible in the past. This book is a must-read for those who care about the future of business IT." -Elizabeth Hackenson, CIO, MCI "Service-Oriented Architecture is key to help customers become on demand businesses-a business that can quickly respond to competitive threats and be first to take advantage of marketplace opportunities. SOA Compass is a must-read for those individuals looking to bridge the gap between IT and business in order to help their enterprises become more flexible and responsive." -Michael Liebow, Vice President, Web Services and Service-Oriented Architecture, IBM Business Consulting Services "This book is a welcome addition to SOA literature. It articulates the business case and provides practical proven real-world advice, guidance, tips, and techniques for organizations to make the evolution from simple point-to-point web services to true SOA by addressing such topics as planning, organization, analysis and design, security, and systems management." -Denis O'Sullivan, Fireman's Fund Enterprise Architect Maximize the business value and flexibility of your SOA deployment In this book, IBM Enterprise Integration Team experts present a start-to-finish guide to planning, implementing, and managing Service-Oriented Architecture. Drawing on their extensive experience helping enterprise customers migrate to SOA, the authors share hard-earned lessons and best practices for architects, project managers, and software development leaders alike. Well-written and practical, Service-Oriented Architecture Compass offers the perfect blend of principles and "how-

to" guidance for transitioning your infrastructure to SOA. The authors clearly explain what SOA is, the opportunities it offers, and how it differs from earlier approaches. Using detailed examples from IBM consulting engagements, they show how to deploy SOA solutions that tightly integrate with your processes and operations, delivering maximum flexibility and value. With detailed coverage of topics ranging from policy-based management to workflow implementation, no other SOA book offers comparable value to workingIT professionals. Coverage includes SOA from both a business and technical standpoint-and how to make the business case Planning your SOA project: best practices and pitfalls to avoid SOA analysis and design for superior flexibility and value Securing and managing your SOA environment Using SOA to simplify enterprise application integration Implementing business processes and workflow in SOA environments Case studies in SOA deployment After you've deployed: delivering better collaboration, greater scalability, and more sophisticated applications The IBM Press developerWorks® Series is a unique undertaking in which print books and the Web are mutually supportive. The publications in this series are complemented by resources on the developerWorks Web site on ibm.com. Icons throughout the book alert the reader to these valuable resources.
"This book is a valuable addition to the reading list of executives, managers, and staff in business, government, and other sectors who seek to keep their enterprises agile and efficient as they manage change, implement new business processes and supporting

technologies, and pursue important strategic
goals"--Provided by publisher.
Enterprise architecture is leading IT's way to the
executive boardroom, as CIOs are now taking their place
at the management table. Organizations investing their
time, money, and talent in enterprise architecture (EA)
have realized significant process improvement and
competitive advantage. However, as these organizations
discovered, it is one thing to acquire a game-changing
technology but quite another to discover ways to use it
well. A project of the Society for Information
Management's Enterprise Architecture Working Group
and edited by Leon A. Kappelman, The SIM Guide to
Enterprise Architecture provides insights from leading
authorities on EA, including John Zachman, Larry
DeBoever, George Paras, Jeanne Ross, and Randy
Hite. The book supplies a solid understanding of key
concepts for effectively leveraging EA to redesign
business processes, integrate services, and become an
Information Age enterprise. Beginning with a look at
current theory and frameworks, the book discusses the
practical application of enterprise architecture and
includes a wealth of best practices, resources, and
references. It contains the SIM survey of IT
organizations' EA activities, which provides important
metrics for evaluating progress and success. Successful
businesses exploit synergy among business functions
and push the boundaries of process design. IT's cross-
functional position uniquely qualifies it to lead process
innovation. EA lets CIOs integrate technology with
business vision and is the roadmap for implementing

new systems, changing behavior, and driving value. This book explores the vision, foundation, and enabling technology required to successfully transform organizations with enterprise architecture.

This book contains revised and extended versions of selected papers from the Fifth International Symposium on Business Modeling and Software Design, BMSD 2015, held in Milan, Italy, in July 2015. The symposium was organized and sponsored by the Interdisciplinary Institute for Collaboration and Research on Enterprise Systems and Technology (IICREST), being co-organized by Politecnico di Milano and technically co-sponsored by BPM-D. Cooperating organizations were Aristotle University of Thessaloniki (AUTH), the U Twente Center for Telematics and Information Technology (CTIT), the BAS Institute of Mathematics and Informatics (IMI), the Dutch Research School for Information and Knowledge Systems (SIKS), and AMAKOTA Ltd. BMSD 2015 received 57 paper submissions from which 36 papers were selected for publication in the BMSD'15 proceedings. 14 of those papers were selected as full papers. Additional post-symposium reviewing was carried out reflecting both the qualities of the papers and the way they were presented. 10 best papers were selected for the Springer edition (mainly from the BMSD'15 full papers). The 10 papers published in this book were carefully revised and extended (following the reviewers' comments) from the papers presented. The selection considers a large number of BMSD-relevant research topics: from business-processes-related topics, such as process mining and discovery, (dynamic)

business process management (and process-aware information systems), and business process models and ontologies (including reflections into the Business Model Canvas); through software-engineering-related topics, such as domain-specific languages and software quality (and technical debt); and semantics-related topics, such as semantic technologies and knowledge management (and knowledge identification); to topics touching upon cloud computing and IT-enabled capabilities for enterprises.

Architecture for the Intelligent Enterprise: Powerful New Ways to Maximize the Real-time Value of Information Tomorrow's winning "Intelligent Enterprises" will bring together far more diverse sources of data, analyze it in more powerful ways, and deliver immediate insight to decision-makers throughout the organization. Today, however, most companies fail to apply the information they already have, while struggling with the complexity and costs of their existing information environments. In this book, a team of IBM's leading information management experts guide you on a journey that will take you from where you are today toward becoming an "Intelligent Enterprise." Drawing on their extensive experience working with enterprise clients, the authors present a new, information-centric approach to architecture and powerful new models that will benefit any organization. Using these strategies and models, companies can systematically unlock the business value of information by delivering actionable, real-time information in context to enable better decision-making throughout the enterprise–from the "shop floor" to the

"top floor." Coverage Includes Highlighting the importance of Dynamic Warehousing Defining your Enterprise Information Architecture from conceptual, logical, component, and operational views Using information architecture principles to integrate and rationalize your IT investments, from Cloud Computing to Information Service Lifecycle Management Applying enterprise Master Data Management (MDM) to bolster business functions, ranging from compliance and risk management to marketing and product management Implementing more effective business intelligence and business performance optimization, governance, and security systems and processes Understanding "Information as a Service" and "Info 2.0," the information delivery side of Web 2.0
We can now say that it is really a big pleasure for us to welcome all of you to the proceedings of CAiSE 2005 which was held in Porto.
This book discusses business architecture as a basis for aligning efforts with outcomes. It views BA as complementary to enterprise architecture, where the focus of technological initiatives and inventories is to understand and improve business organization, business direction, and business decision-making. This book provides a practical, long-term view on BA. Based on the authors' consulting experience and industrial research, the material in this book is a valuable addition to the thought processes around BA and EA. The lead author has direct and practical experience with large clients in applying APQC capability framework for undertaking multiple enterprise-wide capability assessments.

Traditional business practices have been left behind due to the increased use of data analytics and information technology in companies worldwide. This development has led to businesses implementing transformative projects that use these new technologies in their decision-making systems. Altering the entire architecture of a company is a daunting task; however, researchers are finding methods through applied mathematics that can make it easier on companies. Implementing analytical models into current business processes is vital for professionals across the globe. Using Applied Mathematical Models for Business Transformation is an essential reference source that discusses the advancement of decision-making systems in business environments with the use of applied mathematics, algorithms, and information technology. Featuring research on topics such as decision-making systems, critical success factors, and global enterprise architecture, this book is ideally designed for project managers, financial analysts, business strategists, software engineers, technical architects, students, researchers, and educators seeking coverage on the transformation of business practices using applied mathematics and information technology. Increasingly, organizations allocate a substantial financial budget to the acquisition, implementation, and management of IT solutions. IT solutions are employed strategic partners in supporting business strategic outcome, and the solutions are tools used to support operational activities within an environment. Given the vast amounts being invested in IT solutions and

development, there is a need for a better return and outcome for organizations. Empowering Businesses With Collaborative Enterprise Architecture Frameworks is an essential reference source that provides readers with pragmatic, implementable strategies and direction to create IT with collaborative capabilities that can reduce the cost of running IT within an organization. Moreover, the book offers pragmatic roadmaps to adopting disruptive IT solutions effectively and efficiently and towards gaining a better understanding of enterprise architecture as a means to business decision making. Featuring research on topics such as business engineering, cloud computing, and open systems, this book is ideally designed for managers, directors, and other business decision makers; government and industry policymakers; business and enterprise architects; industry professionals; academicians; researchers; and students.

If you're a general manager or CFO, do you feel you're spending too much on IT or wishing you could get better returns from your IT investments? If so, it's time to examine what's behind this IT-as-cost mind-set. In The Real Business of IT, Richard Hunter and George Westerman reveal that the cost mind-set stems from IT leaders' inability to communicate about the business value they create-so CIOs get stuck discussing budgets rather than their contributions to the organization. The authors explain how IT leaders can combat this mind-set by first using information technology to generate three forms of value important to leaders throughout the organization: -Value for money when your IT department operates efficiently and effectively -An investment in business performance evidenced when IT helps divisions, units, and

departments boost profitability -Personal value of CIOs as leaders whose contributions to their enterprise go well beyond their area of specialization The authors show how to communicate about these forms of value with non-IT leaders-so they understand how your firm is benefiting and see IT as the strategic powerhouse it truly is.

Ever-changing business needs have prompted large companies to rethink their enterprise IT. Today, businesses must allow interaction with their customers, partners, and employees at more touch points and at a depth never thought previously. At the same time, rapid advances in information technologies, like business digitization, cloud computing, and Web 2.0, demand fundamental changes in the enterprises' management practices. These changes have a drastic effect not only on IT and business, but also on policies, processes, and people. Many companies therefore embark on enterprise-wide transformation initiatives. The role of Enterprise Architecture (EA) is to architect and supervise this transformational journey. Unfortunately, today's EA is often a ponderous and detached exercise, with most of the EA initiatives failing to create visible impact. The enterprises need an EA that is agile and responsive to business dynamics. Collaborative Enterprise Architecture provides the innovative solutions today's enterprises require, informed by real-world experiences and experts' insights. This book, in its first part, provides a systematic compendium of the current best practices in EA, analyzes current ways of doing EA, and identifies its constraints and shortcomings. In the second part, it leaves the beaten tracks of EA by introducing Lean, Agile, and Enterprise 2.0 concepts to the traditional EA methods. This blended approach to EA focuses on practical aspects, with recommendations derived from real-world experiences. A truly thought provoking and pragmatic guide to manage EA, Collaborative Enterprise Architecture effectively merges the

long-term oriented top-down approach with pragmatic bottom-up thinking, and that way offers real solutions to businesses undergoing enterprise-wide change. Covers the latest emerging technologies affecting business practice, including digitization, cloud computing, agile software development, and Web 2.0 Focuses on the practical implementation of EAM rather than theory, with recommendations based on real-world case studies Addresses changing business demands and practices, including Enterprise 2.0, open source, global sourcing, and more Takes an innovative approach to EAM, merging standard top-down and pragmatic, bottom-up strategies, offering real solutions to businesses undergoing enterprise-wide changes

This book addresses the challenges in the software engineering of variability-intensive systems. Variability-intensive systems can support different usage scenarios by accommodating different and unforeseen features and qualities. The book features academic and industrial contributions that discuss the challenges in developing, maintaining and evolving systems, cloud and mobile services for variability-intensive software systems and the scalability requirements they imply. The book explores software engineering approaches that can efficiently deal with variability-intensive systems as well as applications and use cases benefiting from variability-intensive systems.

The proposed book talks about the participation of human in Big Data.How human as a component of system can help in making the decision process easier and vibrant.It studies the basic build structure for big data and also includes advanced research topics.In the field of Biological sciences, it comprises genomic and proteomic data also. The book swaps traditional data management techniques with more robust and vibrant methodologies that focus on current requirement and demand through human computer interfacing in order to cope up with

present business demand. Overall, the book is divided in to five parts where each part contains 4-5 chapters on versatile domain with human side of Big Data.

Advances in hardware, software, and audiovisual rendering technologies of recent years have unleashed a wealth of new capabilities and possibilities for multimedia applications, creating a need for a comprehensive, up-to-date reference. The Encyclopedia of Multimedia Technology and Networking provides hundreds of contributions from over 200 distinguished international experts, covering the most important issues, concepts, trends, and technologies in multimedia technology. This must-have reference contains over 1,300 terms, definitions, and concepts, providing the deepest level of understanding of the field of multimedia technology and networking for academicians, researchers, and professionals worldwide.

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