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A Systemic Perspective to Managing Complexity with Enterprise Architecture - Saha, Pallab
2013-09-30

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.

The Enterprise Architecture Sourcebook, Volume 1, Second Edition - Charles Babers
2015-03-20

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.

Using Applied Mathematical Models for Business Transformation - Trad, Antoine
2019-12-20

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.

Enterprise Dynamics Sourcebook - Kenneth C. Hoffman
2013-02-25

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

Federal enterprise architecture - United States. Congress. House. Committee on Government Reform. Subcommittee on Technology, Information Policy, Intergovernmental Relations, and the Census 2004

Empowering Businesses With Collaborative Enterprise Architecture Frameworks - Iyamu, Tiko 2020-08-07

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.

Enterprise Architecture for Connected E-Government: Practices and Innovations - Saha, Pallab 2012-06-30

"This book addresses the gap in current literature in terms of linking and understanding the relationship between e-government and government enterprise architecture"--Provided by publisher.

Outcome-Driven Business Architecture - Amit Tiwary 2018-08-06

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.

Collaborative Enterprise Architecture - Stefan Bente 2012-09-01

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
Gamify - Biran Burke 2016-10-14

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.

Advanced Information Systems Engineering
- Oscar Pastor 2005-05-18

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.

2014 International Conference on Economics and Management (ICEM2014). -
2014-02-04

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.

The SIM Guide to Enterprise Architecture - Leon Kappelman 2009-10-26

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.

Business modernization improvements needed in management of NASA's integrated financial management program. -

Software Engineering for Variability Intensive Systems - Ivan Mistrik 2019-01-15

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.

Advances in Enterprise Engineering VIII - David Aveiro 2014-04-11

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.

Trends in Enterprise Architecture Research

- Marc Lankhorst 2010-11-01

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.

Encyclopedia of Multimedia Technology and Networking, Second Edition

- Pagani, Margherita 2008-08-31

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.

Enterprise Architecture A to Z

- Daniel Minoli 2008-06-19

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.

The Art of Enterprise Information

Architecture

- Mario Godinez 2010-04-01

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

The Human Element of Big Data - Geetam S. Tomar 2016-10-26

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 into five parts where each part contains 4-5 chapters on versatile domain with human side of Big Data.

Business Modeling and Software Design - Boris Shishkov 2016-06-13

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.

Business Architecture - Mr Graham Meaden 2012-09-01

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.

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.

Information Technology Strategy and Management: Best Practices - Chew, Eng K. 2009-01-31

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

Enterprise Architecture for Strategic

Management of Modern IT Solutions - Tiko Iyamu 2022-03-16

The popularity of enterprise architecture (EA) has increased in the last two decades, in both business and academic domains. Despite the cumulative interest from all sectors, the implementation and practice of EA have been entangled with numerous challenges and complexities. Consequently, some organisations continue to theorise the concept, which has ramifications on practice and return on investment (ROI). This has led to many studies that have been conducted, to understand the complexities impacting the implementation and practice of EA in organisations. Yet, the trajectory of some convolutions remains mystery in many quarters. This attributes to the struggle to articulate the value of EA in many environments. Hence many organisations find it difficult to apply EA for strategic management of modern information technology (IT) solutions. Enterprise Architecture for Strategic Management of Modern IT Solutions provides guidance on how to employ EA in deploying and managing IT solutions from pragmatic and implementable strategies' perspectives. Until now, implementation and practice of EA have been slow, despite its growing popularity and interest from all sectors. The author employs sociotechnical theories such as actor-network theory (ANT) and structuration theory (ST) as lenses to examine and explain why and how challenges and complexities exist and derail the implementation or practice of EA in organisations. By doing so, this serves to enable practitioners and readers to gain fresh insights on why the challenges exist and how they can be addressed in creating collaborative capabilities for business enhancement, sustainability, and competitiveness. The book provides detailed insights on how to apply EA for organisational purposes, from three main fronts. First, it explains the implications that lack of understanding of EA have on organisational activities and processes. Second, it examines the challenges and complexities that hinder the implementation and practice of EA in organisations. Third, it proposes models and frameworks on how EA can be applied for strategic management of modern IT solutions in organisations. Written for postgraduates,

researchers, academics, and professionals in the fields of EA, IT, and information systems, this book provides a valuable resource that will enable and enhance implementation and practice of EA including future studies.

Enterprise Architecture for Business Success - Inji Wijegunaratne, George Fernandez and Peter Evans-Greenwood 2014-11-07

Enterprise Architecture (EA) has evolved to become a prominent presence in today's information systems and technology landscape. The EA discipline is rich in frameworks, methodologies, and the like. However, the question of 'value' for business ;professionals remains largely unanswered - that is, how best can Enterprise Architecture and Enterprise Architects deliver value to the enterprise? Enterprise Architecture for Business Success answers this question. Enterprise Architecture for Business Success is primarily intended for IT professionals working in the area of Enterprise Architecture. The eBook gives practical insights into what constitutes EA and how it might be practiced in a typical resource constrained business environment. The contents of the eBook include a brief guideline about EA systems and terminology, followed by notes on how to design enterprise systems in line with business strategies. The eBook also presents case studies which help to demonstrate the distance between theory and reality when it comes to optimizing IT infrastructure for successfully achieving business goals. Lengthy theoretical discussions are avoided in favor of focusing more on the practice and tools of EA. Readers will find value in this eBook, whether they are an IT consultant or a manager, an EA team lead or member, or just someone keen to learn about real-world EA.

Enterprise Architecture -

Crisis Management: Concepts, Methodologies, Tools, and Applications -

Management Association, Information Resources 2013-11-30

"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.

Information Systems and New Applications in the Service Sector: Models and Methods -

Wang, John 2010-11-30

"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.

How to Survive in the Jungle of Enterprise Architecture Frameworks - Jaap Schekkerman 2004

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.

Enterprise GIS - John R. Woodard 2020-01-24

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.

Advances in Human Factors, Software, and Systems Engineering - Tareq Ahram 2017-06-10

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.

Business Engineering and Service Design with

Applications for Health Care Institutions - Oscar Barros 2013-10-07

Business Engineering attempts to provide tools, as other engineering disciplines have, for the design of businesses. This implies that enterprises should be formally designed and that their architectures, including processes, people organization, information systems, IT infrastructure and interactions with customers and suppliers should be considered in a systemic way in such design. This Enterprise Design is not a onetime effort, but, in the dynamic environment we face, organizations have to have the capability to continuously evaluate opportunities to improve their designs. Our approach includes the integrated design of a business, its service configuration (architecture) and capacity planning, the resource management processes and the operating processes. Such an approach is based on general patterns that define service design options and analytical methods that make possible resource optimization to meet demand. This is complemented with technology that allows process execution with BPMN tools and web services over SOA. In summary we integrate the design of a business with analytics and supporting IT tools in giving a sound basis for Business Engineering. Our proposal has been extensively tested and improved based on the experience with hundreds of projects in all types of service industries performed at the Master in Business Engineering of the University of Chile. Several of such cases, which have had impressive economics results, are summarized in the text. In particular, we have worked on hospital services, where research and development projects that have been performed in five public hospitals will originate general solutions, summarized in the book, which will eventually be implemented in over a hundred facilities.

T-Byte Digital Customer Experience - V-Gupta 2019-11-26

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.

Enterprise Architecture and Cartography -

Pedro Sousa 2022-11-08

This textbook provides guidance to both students and practitioners of enterprise architecture (EA) on how to develop and maintain enterprise models. Rather than providing yet another list of EA notations and frameworks from A to Z, it focuses on methods to perform such tasks. The problem of EA maintenance, named Enterprise Cartography, is an important aspect addressed in this book because EA is a never ending challenge that increases as the organization transformations pace also increases. The long time perspective also entails the evolution of architectural frameworks and notations, something that does not occur when developing new models. Thus, a catalogue of patterns, principles and methods is presented to develop and maintain EA models and views. After a general introduction to the book in chapter 1, chapter 2 presents basic concepts for EA modeling. Chapter 3 further details the set of EA concepts needed to present the patterns, and principles, which are subsequently introduced in chapter 4. Next, chapter 5 describes enterprise cartography concepts and principles. The remaining book then turns to techniques and methodologies. In chapter 6 an EA development method is summarized. In chapter 7 an enterprise strategy design approach is proposed, while in chapter 8 a business process design methodology is described. Chapters 9 and 10 focus on information architecture and information systems architecture design approaches, including information systems architecture planning and application portfolio management. Eventually, chapter 11 describes a method for enterprise cartography (EC) design. Last not least, several case studies on EA and EC are proposed in the last chapter.

Service-Oriented Computing - ICSOC 2008 Workshops - George Feuerlicht 2009-04-21

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.

Engineering and Management of Data

Centers - Jorge Marx Gómez 2017-11-10

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. **Defense Standardization Program Journal** - 2007

Handbook of Enterprise Systems

Architecture in Practice - Saha, Pallab

2007-03-31

"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.