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Web Technologies: Concepts, Methodologies, Tools, and Applications - Tatnall, Arthur 2009-10-31

With the technological advancement of mobile devices, social networking, and electronic services, Web technologies continues to play an ever-growing part of the global way of life, incorporated into cultural, economical, and organizational levels. Web Technologies: Concepts, Methodologies, Tools, and Applications (4 Volume) provides a comprehensive depiction of current and future trends in support of the evolution of Web information systems, Web applications, and the Internet. Through coverage of the latest models, concepts, and architectures, this multiple-volume reference supplies audiences with an authoritative source of information and direction for the further development of the Internet and Web-based phenomena.

Enterprise Architecture at Work - Marc Lankhorst 2012-08-20

An enterprise architecture tries to describe and control an organisation's structure, processes, applications, systems and techniques in an integrated way. The unambiguous specification and description of components and their relationships in such an architecture requires a coherent architecture modelling language. Lankhorst and his co-authors present such an enterprise modelling language that captures the complexity of architectural domains and their relations and allows the construction of integrated enterprise architecture models. They provide architects with concrete instruments that improve their architectural practice. As this is not enough, they additionally present techniques and heuristics for communicating with all relevant stakeholders about these architectures. Since an architecture model is useful not only for providing insight into the current or future situation but can also be used to evaluate the transition from 'as-is' to 'to-be', the authors also describe analysis methods for assessing both the qualitative impact of changes to an architecture and the quantitative aspects of architectures, such as performance and cost issues. The modelling language presented has been proven in practice in many real-life case studies and has been adopted by The Open Group as an international standard. So this book is an ideal companion for enterprise IT or business architects in industry as well as for computer or management science students studying the field of enterprise architecture.

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.

Controlling the Chaos - Robert Fox 2018

A FUNCTIONAL FRAMEWORK FOR ENTERPRISE ARCHITECTURE AND GOVERNANCE

Enterprise Architecture for Integration - Clive Finkelstein 2006-01-01

The enterprise architecture methods of enterprise engineering as

described in this book enable business experts and IT experts together to identify reusable business activities, processes and integrated databases. Three main sections cover enterprise architecture for managers, methodology, and integration technologies.

IT Architecture from A to Z: Theoretical basis. First Edition - Vadim Aldzhanov 2018-12-09

The book contains theoretical knowledge in such IT areas as enterprise architecture, information security, service management, project management, and business process management. It describes the models and approaches to assess the cost of ownership and organizational aspects of IT. The book will be a good asset for IT managers and heads of IT units. The material is presented in a logical order for the methodical study of all aspects of IT operations, as well as using it as a handbook.

Enterprise Interoperability - Martin Zelm 2014-04-16

In a fast changing global economy governed by Enterprise Services and the Future Internet, enterprises and virtual factories will self-organize in distributed, interoperable, innovation Ecosystems where the issues of Enterprise Interoperability need to be solved in a multi-view of information, services and processes throughout Enterprise Networks. The book constitutes the proceedings of five workshops co-located with the Fifth IFIP Working Conference IWEI 2013. It contains the presented peer reviewed papers and summaries of the workshop discussions.

Complementing the IWEI Conference program, the workshops aimed at exploiting new issues, challenges and solutions for Enterprise Interoperability and Manufacturing Eco Systems. The scope of the workshops spanned over a range of interoperability issues in Service Science and innovation, Model Driven Service Engineering

Architectures, Service Modelling Languages, reference ontology for manufacturing , Case studies and tools particularly for SMEs, Business - IT alignment and related Standardization. Contents 1 - Model Driven Services Engineering Architecture (MDSEA): A Result of MSEE Project An Architecture for Service Modelling in Servitization Context: MDSEA, Y. Ducq. A Set of Templates for MDSEA, D. Chen. 2 - Interoperability to Support Business-IT Alignment Report Workshop 2, I.-S. Fan, V. Taratoukhine, M. Matzner. Interoperability as a Catalyst for Business Innovation, J.H.P. Eloff, M.M. Eloff, M.T. Dlamini, E. Ngassam, D. Ras. Process-Oriented Business Modeling - An Application in the Printing Industry, A. Malsbender, K. Ortbach, R. Plattfaut, M. Voigt, B. Niehaves. A Comparative Study of Modelling Methodologies Using a Concept of Process Consistency, E. Babkin, E. Potapova, Y. Zelenova. Maintenance Support throughout the Life-Cycle of High Value Manufacturing Products. Interoperability Issues, A. Fedotova, V. Taratoukhine, Y. Kupriyanov. Using Enterprise Architecture to Align Business Intelligence Initiatives, I.-S. Fan, S. Warner. Towards Enterprise Architecture Using Solution Architecture Models, V. Agievich, R. Gimranov, V. Taratoukhine, J. Becker. 3 - Standardisation for Interoperability in the Service-Oriented Enterprise Report Workshop 3, M. Zelm, D. Chen. Standardisation in Manufacturing Service Engineering, M. Zelm, G. Doumeingts. Service Modelling Language and Potentials for a New Standard, D. Chen. An Approach to Standardise a Service Life Cycle Management, M. Freitag, D. Kremer, M. Hirsch, M. Zelm. Open Business Model, Process and Service Innovation with VDML and ServiceML, A. J. Berre, H. De Man, Y. Lew, B. Elvesæter, B.M. Ursin-Holm. Reference Ontologies for Manufacturing, R. Young, N. Hastilow, M. Imran, N. Chungoora, Z. Usman, A.-F. Cutting-Decelle. Standardisation Tools for Negotiating Interoperability Solutions, T. Santos, C. Coutinho, A. Cretan, M. Beca, R. Jardim-Goncalves. 4 - Case Studies on Enterprise Interoperability: How IT Managers Profit from EI Research Report Workshop 4, S. Kassel. Experiences of Transferring Approaches of Interoperability into SMEs, F. Gruner, S. Kassel. 5 - Selected New Applications of Enterprise Interoperability . 179 Report Workshop 5, L. Ferreira Pires, P. Johnson. Service-Oriented Enterprise Interoperability in Logistics, W. Hofman. An Ontological Approach to Logistics, L. Daniele, L. Ferreira Pires. Social

Vision of Collaboration of Organizations on a Cloud Platform, A. Montarnal, W. Mu, F. Bénaben, A.-M. Barthe-Delanoë, J. Lamothe. Semantic Standards Quality Measured for Achieving Enterprise Interoperability: The Case of the SETU Standard for Flexible Staffing, E. Folmer, H. Wu. Re

Management of Information Technology - Carroll W Frenzel 2004 'Management of Information Technology' focuses on the management and enterprise-wide issues of information technology. These issues are examined from a managerial perspective - from the first-line manager to the chief executive officer.

The Complete Business Process Handbook - Mark von Rosing 2015-09-01

The Complete Business Process Handbook: Extended Business Process Management, Volume Two provides extensive information on every aspect of the processes, frameworks, methods, and approaches to implement BPM. There has been increasing interest in the domain of BPM by an ever-growing community of managers, end users, analysts, consultants, vendors, and academics. This book reflects that interest and meets its demands by covering ground-breaking new research on BPM best practices, leading practices, and outperformers vs.

underperformers. It provides real-world best practices and examples of award-winning industry leaders and innovators. Along with an in-depth look at extended BPM ontology, readers will discover enhanced modeling capabilities to enable an entirely new way of working with processes, and how to combine enterprise architecture and BPM. Readers will find this a comprehensive text that helps them gain a better understanding of business process management, how to get started, and how to avoid the common pitfalls that can lead to failed projects and poor BPM adoption. Teachers users about business process management (BPM) and how to get started Provides extensive information on BPM processes and frameworks, methods, and approaches to implement BPM Gives real-world best practices and leading practice examples of award-winning industry leaders and innovators Presents common pitfalls that can lead to failed BPM projects, and ultimately, poor BPM adoption

Technology, Innovation, and Enterprise Transformation - Wadhwa, Manish 2014-09-30

Technical advancements are an important part of modern society, but particularly important in the business world. The success or failure of business operations can be affected by the technical operations working within it. *Technology, Innovation, and Enterprise Transformation* addresses the crucial relationship between a business and its technical implementations, and how current innovations are changing how the industry operates. Highlighting current theoretical frameworks, novel empirical research discoveries, and fundamental literature surveys, this book is an essential reference source for academicians, professionals, and researchers who are interested in the latest technical insights within the business field.

Serviceology for Services - Yoshinori Hara 2017-06-30

This book constitutes the refereed proceedings of the 5th International Conference on Serviceology for Services, held in Vienna, Austria, in July 2017. The 21 full papers and one tutorial paper presented in this volume were carefully reviewed and selected from 75 submissions. The papers are organized around the following topics: human-centered service; customer satisfaction; service innovation and marketing; service design.

Reaching the Pinnacle - Samuel B. Holcman 2013-04-29

"Reaching the Pinnacle: A Methodology of Business Understanding, Technology Planning, and Change (Implementing and Managing Enterprise Architecture)" by Samuel B. Holcman explains the detailed process of building an enterprise architecture. Samuel B. Holcman brings his strategic business plans to business and technology professionals with "Reaching the Pinnacle: A Methodology of Business Understanding, Technology Planning, and Change (Implementing and Managing Enterprise Architecture)." In order to bring a method to the madness that can often be today's business structure, Holcman uses "Reaching the Pinnacle" to introduce the process of building an enterprise architecture. Holcman uses his 40 years of experience as a leading trainer and consultant in enterprise architecture in writing "Reaching the Pinnacle." He explains enterprise architecture as the rethinking of how business planning and information technology work together in order to achieve strategic goals. "Reaching the Pinnacle" explains how an organization and its important departments can achieve their goals through a series of project initiatives. Holcman offers a simple, easy-to-understand way to implement an enterprise architecture project into one's organization. "While the approach is not quick - it may take up to a few years to transform an organization - my methodology

provides an effective means for moving the organization from its as-is state to its desired state in an iterative manner," says Holcman. Holcman's methods and approach have been used by numerous Fortune 500 companies and have led him to be the top consultant on the topic. He believes the 'for practitioners, by practitioners' approach of "Reaching the Pinnacle" will make the book a crucial resource among business and technology personnel everywhere. "Reaching the Pinnacle: A Methodology of Business Understanding, Technology Planning, and Change (Implementing and Managing Enterprise Architecture)" is available for sale online at Amazon.com, directly from the author at www.PinnacleBusGrp.com, and other channels. REVIEW COPIES AND INTERVIEWS AVAILABLE

Capability Management in Digital Enterprises - Kurt Sandkuhl 2018-07-28

Putting capability management into practice requires both a solid theoretical foundation and realistic approaches. This book introduces a development methodology that integrates business and information system development and run-time adjustment based on the concept of capability by presenting the main findings of the CaaS project - the Capability-Driven Development (CDD) methodology, the architecture and components of the CDD environment, examples of real-world applications of CDD, and aspects of CDD usage for creating business value and new opportunities. Capability thinking characterizes an organizational mindset, putting capabilities at the center of the business model and information systems development. It is expected to help organizations and in particular digital enterprises to increase flexibility and agility in adapting to changes in their economic and regulatory environments. Capability management denotes the principles of how capability thinking should be implemented in an organization and the organizational means. This book is intended for anyone who wants to explore the opportunities for developing and managing context-dependent business capabilities and the supporting business services. It does not require a detailed understanding of specific development methods and tools, although some background knowledge and experience in information system development is advisable. The individual chapters have been written by leading researchers in the field of information systems development, enterprise modeling and capability management, as well as practitioners and industrial experts from these fields.

Citizen's Right to the Digital City - Marcus Foth 2015-12-29

Edited by thought leaders in the fields of urban informatics and urban interaction design, this book brings together case studies and examples from around the world to discuss the role that urban interfaces, citizen action, and city making play in the quest to create and maintain not only secure and resilient, but productive, sustainable and viable urban environments. The book debates the impact of these trends on theory, policy and practice. The individual chapters are based on blind peer reviewed contributions by leading researchers working at the intersection of the social / cultural, technical / digital, and physical / spatial domains of urbanism scholarship. The book will appeal not only to researchers and students, but also to a vast number of practitioners in the private and public sector interested in accessible content that clearly and rigorously analyses the potential offered by urban interfaces, mobile technology, and location-based services in the context of engaging people with open, smart and participatory urban environments.

Digital Transformation of Enterprise Architecture - Vivek Kale 2019-07-08

"In this book, Vivek Kale makes an important contribution to the theory and practice of enterprise architecture ... this book captures the breadth and depth of information that a modern enterprise architecture must address to effectively support an agile enterprise. This book should have a place in every practicing architect's library." —John D. McDowall, Author of *Complex Enterprise Architecture Digital Transformation of Enterprise Architecture* is the first book to propose Enterprise Architecture (EA) as the most important element (after Business Models) for digital transformation of enterprises. This book makes digital transformation more tangible by showing the rationale and typical technologies associated with it, and these technologies in turn reveal the essence of digital transformation. This book would be useful for analysts, designers and developers of future-ready agile application systems. This book proposes that it is the perennial quest for interoperability & portability, scalability, availability, etc., that has directed and driven the evolution of the IT/IS industry in the past 50 years. It is this very quest that has led to the emergence of technologies like service-oriented, cloud, and big data computing. In addition to the conventional attributes

of EA like interoperability, scalability and availability, this book identifies additional attributes of mobility, ubiquity, security, analyticity, and usability. This pragmatic book: Identifies three parts effort for any digital transformation: Business Models, Enterprise Architectures and Enterprise Processes. Describes eight attributes of EA: interoperability, scalability, availability, mobility, ubiquity, security, analyticity, and usability. Explains the corresponding technologies of service-oriented, cloud, big data, context-aware, Internet of Things (IoT), blockchain, soft, and interactive computing. Briefs on auxiliary technologies like integration, virtualization, replication, spatio-temporal databases, embedded systems, cryptography, data mining, and interactive interfaces that are essential for digital transformation of enterprise architecture. Introduces interactive interfaces like voice, gaze, gesture and 3D interfaces. Provides an overview of blockchain computing, soft computing, and customer interaction systems. Digital Transformation of Enterprise Architecture proposes that to withstand the disruptive digital storms of the future, enterprises must bring about digital transformation, i.e. a transformation that affects an exponential change (amplification or attenuation) in any aspect of the constituent attributes of EA. It proposes that each of these technologies (service-oriented, cloud, big data, context-aware, IoT, blockchain, soft, and interactive computing) bring about digital transformation of the corresponding EA attribute viz. interoperability, scalability, availability, mobility, ubiquity, security, analyticity, and usability.

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

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

Handbook on Enterprise Architecture - Peter Bernus 2012-12-06

This handbook is about methods, tools and examples of how to architect an enterprise through considering all life cycle aspects of Enterprise Entities. It is based on ISO15704:2000, or the GERAM Framework. A wide audience is addressed, as the handbook covers methods and tools necessary to design or redesign enterprises, as well as those necessary to structure the implementation into manageable projects.

Enterprise Architecture Turnaround - Nagesh V. Anupindi 2011-12-22

To provide structure and transparency to the complex world of IT, Enterprise Architecture was created. However, we created complexities within Enterprise Architecture with Frameworks that are not easily understandable and purposefully implementable. In this book, Nagesh and Gerry help to turnaround Enterprise Architecture organizations. They introduce a simple IDEA Framework that is based on common practices and investments within IT organizations. The Ten deliverables presented in this book bring structure and clarity to IT organizations that are 10-people IT shops and 1000+ IT staff enterprises alike. This book is not an ivory tower work, it is actionable, applied Enterprise Architecture. It is also a healthy dose of EA tough love. If you want to know why EA fails, read the second chapter. It is introspective, it does not blame external forces: the not-my-fault syndrome. It also does not blame, in fact it hardly mentions, technology. To be fair, the Nagesh and Gerry do recognize external influences; however they are viewed as risks that must be managed. Most corporations focus on this years budget, investments, and rewards. The same focus rolls downhill to the Information Technology department. If the IT department has not successfully communicated the budget and managed to spend it within the limits (10% variance), everything else may seem irrelevant. Eventually, Nagesh and Gerry started looking through current IT systems and IT assets to understand: (a) where the current funds were being invested, (b) how these investments jelled or were mandated because of the previous investments that had been made by IT, and (c) how the companys business priorities aligned with future technology needs, including the need to meet compliance requirements. Considering and discovering the answers to these three questions led Nagesh and Gerry to develop a definition of Enterprise Architecture that was based on technology investments Investment Driven Enterprise Architecture (IDEA) Framework. The purpose of the IDEA Framework is to provide guidance on how the corporations future technology will be drafted and communicated. Its method is to utilize actual systems, hardware, people, and business functions in order to establish boundaries within which the IDEA Framework will work. The structure of the IDEA Framework differs from that of many others because it consists of key deliverables that fit into day-to-day activities and it accommodates an enterprise-wide strategic plan. It also provides for the much-needed interaction between

these key deliverables and facilitates contributions from key stakeholders across Business Units and the various IT departments. In essence, the IDEA Framework takes the key deliverables, stakeholders, and organizations and demonstrates how they dynamically function together.

Case Studies in System of Systems, Enterprise Systems, and Complex Systems Engineering - Alex Gorod 2014-07-01

Suitable as a reference for industry practitioners and as a textbook for classroom use, Case Studies in System of Systems, Enterprise Systems, and Complex Systems Engineering provides a clear understanding of the principles and practice of system of systems engineering (SoSE), enterprise systems engineering (ESE), and complex systems engineering (CSE). Multiple domain practitioners present and analyze case studies from a range of applications that demonstrate underlying principles and best practices of transdisciplinary systems engineering. A number of the case studies focus on addressing real human needs. Diverse approaches such as use of soft systems skills are illustrated, and other helpful techniques are also provided. The case studies describe, examine, analyze, and assess applications across a range of domains, including: Engineering management and systems engineering education Information technology business transformation and infrastructure engineering Cooperative framework for and cost management in the construction industry Supply chain modeling and decision analysis in distribution centers and logistics International development assistance in a foreign culture of education Value analysis in generating electrical energy through wind power Systemic risk and reliability assessment in banking Assessing emergencies and reducing errors in hospitals and health care systems Information fusion and operational resilience in disaster response systems Strategy and investment for capability developments in defense acquisition Layered, flexible, and decentralized enterprise architectures in military systems Enterprise transformation of the air traffic management and transport network Supplying you with a better understanding of SoSE, ESE, and CSE concepts and principles, the book highlights best practices and lessons learned as benchmarks that are applicable to other cases. If adopted correctly, the approaches outlined can facilitate significant progress in human affairs. The study of complex systems is still in its infancy, and it is likely to evolve for decades to come. While this book does not provide all the answers, it does establish a platform, through which analysis and knowledge application can take place and conclusions can be made in order to educate the next generation of systems engineers.

Innovation Through Information Systems - Frederik Ahlemann 2021

This book presents the current state of research in information systems and digital transformation. Due to the global trend of digitalization and the impact of the Covid 19 pandemic, the need for innovative, high-quality research on information systems is higher than ever. In this context, the book covers a wide range of topics, such as digital innovation, business analytics, artificial intelligence, and IT strategy, which affect companies, individuals, and societies. This volume gathers the revised and peer-reviewed papers on the topic "Management" presented at the International Conference on Information Systems, held at the University of Duisburg-Essen in 2021

Encyclopedia of Information Science and Technology, Fourth Edition - Khosrow-Pour, D.B.A., Mehdi 2017-06-20

In recent years, our world has experienced a profound shift and progression in available computing and knowledge sharing innovations. These emerging advancements have developed at a rapid pace, disseminating into and affecting numerous aspects of contemporary society. This has created a pivotal need for an innovative compendium encompassing the latest trends, concepts, and issues surrounding this relevant discipline area. During the past 15 years, the Encyclopedia of Information Science and Technology has become recognized as one of the landmark sources of the latest knowledge and discoveries in this discipline. The Encyclopedia of Information Science and Technology, Fourth Edition is a 10-volume set which includes 705 original and previously unpublished research articles covering a full range of perspectives, applications, and techniques contributed by thousands of experts and researchers from around the globe. This authoritative encyclopedia is an all-encompassing, well-established reference source that is ideally designed to disseminate the most forward-thinking and diverse research findings. With critical perspectives on the impact of information science management and new technologies in modern settings, including but not limited to computer science, education, healthcare, government, engineering, business, and natural and physical sciences, it is a pivotal and relevant source of knowledge that will benefit every professional within the field of information science and technology

and is an invaluable addition to every academic and corporate library.

Trends in Enterprise Architecture Research and Practice-Driven Research on Enterprise Transformation - Stephan Aier 2012-10-06

This volume constitutes the proceedings of the combined 7th International Workshop on Trends in Enterprise Architecture Research (TEAR 2012) and the 5th Working Conference on Practice-Driven Research on Enterprise Transformation (PRET-5), held in Barcelona, Spain, October 23-24, 2012, and co-located with The Open Group's Conference on Enterprise Architecture, Cloud Computing, and Security. Joining the forces of the two events with The Open Group Conference provided the unique opportunity for an intensive exchange between practitioners as well as for discussions on standardization efforts and academic research in the areas of enterprise transformation and enterprise architecture (EA). Based on careful reviews by at least three Program Committee members, 18 papers were chosen for inclusion in these proceedings. They were presented in six sessions on enterprise architecture management (EAM) effectivity, languages for EA, EAM and the ability to change, advanced topics in EA, governing enterprise transformations, and EA applications.

Enterprise and Organizational Modeling and Simulation - Robert Pergl 2018-09-11

This book constitutes the refereed proceedings of the 14th International Workshop on Enterprise and Organizational Modeling and Simulation, EOMAS 2018, held in Tallinn, Estonia, in June 2018. The main focus of EOMAS is on the role, importance, and application of modeling and simulation within the extended organizational and enterprise context. The 11 full papers presented in this volume were carefully reviewed and selected from 22 submissions. They were organized in topical sections on conceptual modeling, enterprise engineering, and formal methods.

Business Process Model and Notation - Remco Dijkman 2011-11-17

This book constitutes the proceedings of the third workshop on Business Process Model and Notation, BPMN 2011, held in Lucerne, Switzerland, in November 2011. The 8 research papers presented were carefully reviewed and selected from 20 submissions. In addition, 10 short papers are included. The workshop applied a thorough reviewing process, during which each paper was reviewed by three Program Committee members. The BPMN workshop series provides a forum for academics and practitioners who share an interest in business process modeling using the business process modeling notation, which is seen by many as the de facto standard for business process modeling. This year, the workshop lasted two days and consisted of both a scientific and a practitioner event.

Enterprise Systems Education in the 21st Century - Targowski, Andrew 2006-08-31

"This book presents methods of reengineering business curricula in order to use ES solutions. It also helps ES vendors understand the higher education environment so they can support college and university programs"--Provided by publisher.

Building Enterprise Information Architectures - Melissa A. Cook 1996

In this book, noted expert Melissa A. Cook shows you how to put business management back in charge of processes and information, using easy-to-understand principles that have worked since antiquity. Whether you are an executive manager or a technical professional, you can use these principles to integrate the enterprise with information systems that are more flexible, less complex, less expensive, and fully supportive of your business process reengineering efforts. Building Enterprise Information Architecture is, in short, field guide for taking control of information technology and making it serve your bidding - instead of the other way round.

Building Sustainable Information Systems - Henry Linger 2013-11-08

Information Systems (IS) as a discipline draws on diverse areas including, technology, organisational theory, management and social science. The field is recognized as very broad and encompassing many themes and areas. However, the development of artefacts, or information systems development (ISD), in the broadest sense, is a central concern of the discipline. Significantly, ISD impacts on the organisational and societal contexts through the use of the artefacts constructed by the development. Today, that impact also needs to be evaluated in terms of its effects on the environment. Sustainable, or "green," IT is a catch-all term used to describe the development, manufacture, management, use and disposal of ICT in a way that minimizes damage to the environment. As a result, the term has many different meanings, depending on the role assumed in the life span of the ICT artefact. The theme of the proposed

work is to critically examine the whole range of issues around ISD from the perspective of sustainability. Sustainable IT is an emerging theme in academic research and industry practice in response to an individual concern for the environment and the embryonic regulatory environments being enacted globally to address the environmental impact of ICT. In this work we intend to bring together in one volume the diverse research around the development of sustainable IS.

Advanced Methodologies and Technologies in Business Operations and Management - Khosrow-Pour, D.B.A., Mehdi 2018-09-14

Businesses consistently work on new projects, products, and workflows to remain competitive and successful in the modern business environment. To remain zealous, businesses must employ the most effective methods and tools in human resources, project management, and overall business plan execution as competitors work to succeed as well. Advanced Methodologies and Technologies in Business Operations and Management provides emerging research on business tools such as employee engagement, payout policies, and financial investing to promote operational success. While highlighting the challenges facing modern organizations, readers will learn how corporate social responsibility and utilizing artificial intelligence improve a company's culture and management. This book is an ideal resource for executives and managers, researchers, accountants, and financial investors seeking current research on business operations and management.

Enterprise Architecture Planning - Steven H. Spewak 1993

Enterprise Architecture Planning (EAP) is a high-level blueprint for data, applications, and technology that is a cost-effective long-term solution. The authors give you a common-sense approach to EAP, supported by examples of architectures, procedures, checklists, and useful guidelines.

Practice-Driven Research on Enterprise Transformation - Frank Harmsen 2013-06-01

This volume constitutes the proceedings of the 6th Working Conference on Practice-Driven Research on Enterprise Transformation (PRET), held in Utrecht, The Netherlands, on June 6, 2013, co-located with the Enterprise Transformation Track of the 21st European Conference on Information Systems (ECIS). Successful enterprises have well-defined managerial responsibilities and understandable project priorities and enable their processes to be sufficiently agile, even improvisational and continuously changing. They do not solely rely on only mechanistic or purely organic processes and structures, but see enterprise transformation as a combination of deliberate and organic change. This year's papers represent this hybrid view. Moreover, most of them are based on practical cases, which will further contribute to our understanding of enterprise transformation. The eight papers presented in this volume were allocated to tracks on: practical experiences with methods and techniques; cases in enterprise transformation; and enterprise architecture in practice.

Proceedings of the 14th European Conference on e-Government - Alexandru Ionas 2014-12-06

Enterprise Architecture Using the Zachman Framework - Carol O'Rourke 2003

Introduces the concept of Enterprise Architecture, using the Framework developed by John Zachman, to business and MIS students and professionals.

An Introduction to Holistic Enterprise Architecture - Scott A. Bernard 2020-04-16

This is the only book on holistic (organization-wide) enterprise architecture (EA) that integrates strategic, business, and technology planning. The approach includes detailed information on EA governance, implementation, and use, including an example case study, a new chapter on solution architecture methods, and a new chapter on the use of EA to support organizational restructuring as part of mergers and acquisitions. Written in plain language, this book is recommended for executives, managers, and staff in large, complex public and private sector organizations that are too silo'd and/or have highly dynamic operating environments. No prior knowledge on the subject is needed.

Encyclopedia of Information Science and Technology, Third Edition - Khosrow-Pour, Mehdi 2014-07-31

"This 10-volume compilation of authoritative, research-based articles contributed by thousands of researchers and experts from all over the world emphasized modern issues and the presentation of potential opportunities, prospective solutions, and future directions in the field of information science and technology"--Provided by publisher.

Designing Enterprise Architecture Frameworks - Liviu Gabriel Cretu 2016-04-19

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.

Global Perspectives on Design Science Research - Robert Winter 2010-05-14

This book constitutes the refereed proceedings of the 5th International Conference on Global Perspectives on Design Science Research, DERIST 2010, held in St. Gallen, Switzerland, in June 2010. The 35 revised full papers presented together with 10 revised short papers were carefully reviewed and selected from 80 submissions. The papers are organized in topical sections on organising design research, reflecting design science research, design research techniques, design and context, design and organisation, design and information, design research exemplars, design and behaviour, designing collaboration, as well as design and requirements engineering.

MDD, SOA and IT-Management - Ulrike Steffens 2009

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.

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

Managing and Using Information Systems - Keri E. Pearlson 2016-01-11

Managing and Using Information Systems: A Strategic Approach, Sixth Edition, conveys the insights and knowledge MBA students need to become knowledgeable and active participants in information systems decisions. This text is written to help managers begin to form a point of view of how information systems will help, hinder, and create opportunities for their organizations. It is intended to provide a solid foundation of basic concepts relevant to using and managing information.