

# The Art Of Enterprise Information Architecture A Systems Based Approach For Unlocking Business Insight

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**Technology Strategy Patterns** - Eben Hewitt  
2018-10-15

Technologists who want their ideas heard, understood, and funded are often told to speak

the language of business—without really knowing what that is. This book’s toolkit provides architects, product managers, technology managers, and executives with a shared language—in the form of repeatable, practical patterns and templates—to produce great technology strategies. Author Eben Hewitt developed 39 patterns over the course of a decade in his work as CTO, CIO, and chief architect for several global tech companies. With these proven tools, you can define, create, elaborate, refine, and communicate your architecture goals, plans, and approach in a way that executives can readily understand, approve, and execute. This book covers:

- Architecture and strategy: Adopt a strategic architectural mindset to make a meaningful material impact
- Creating your strategy: Define the components of your technology strategy using proven patterns
- Communicating the strategy: Convey your technology strategy in a compelling way to a variety of audiences
- Bringing it all together:

Employ patterns individually or in clusters for specific problems; use the complete framework for a comprehensive strategy

*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.

Architecture Principles - Danny Greefhorst 2011-04-29

Enterprises, from small to large, evolve continuously. As a result, their structures are transformed and extended continuously. Without some means of control, such changes are bound to lead to an overly complex, uncoordinated and heterogeneous environment that is hard to manage and hard to adapt to future changes. Enterprise architecture principles provide a means to direct transformations of enterprises.

As a consequence, architecture principles should be seen as the cornerstones of any architecture. In this book, Greefhorst and Proper focus on the role of architecture principles. They provide both a theoretical and a practical perspective on architecture principles. The theoretical perspective involves a brief survey of the general concept of principle as well as an analysis of different flavors of principles. Architecture principles are regarded as a specific class of normative principles that direct the design of an enterprise, from the definition of its business to its supporting IT. The practical perspective on architecture principles is concerned with an approach to the formulation of architecture principles, as well as their actual use in organizations. To illustrate their use in practice, several real-life cases are discussed, an application of architecture principles in TOGAF is included, and a catalogue of example architecture principles is provided. With this broad coverage, the authors target students and

researchers specializing in enterprise architecture or business information systems, as well as practitioners who want to understand the foundations underlying their practical daily work.

### **The Practice of Enterprise Architecture -**

Svyatoslav Kotusev 2021-01-15

Based on an extensive study of the actual industry best practices, this book provides a systematic conceptual description of an EA practice and offers practically actionable answers to the key questions related to enterprise architecture.

### **Information Architecture for the World Wide Web -**

Louis Rosenfeld 2002

Discusses Web site hierarchy, usability, navigation systems, content labeling, configuring search systems, and managing the information architecture development process.

### **Chess and the Art of Enterprise Architecture -**

Gerben Wierda 2015-01-01

Enterprise Architecture is the discipline of

managing the complexities of the Business-IT landscape. It has been around since the 1980's, when for the first time computers were connected in networks, and the already serious (and unsolved) problem of the complexity of computer programs for relatively simple business needs turned into the huge problem of large networks of them in complex business landscapes. In spite of many 'best practices' and 'frameworks' that have been introduced, Enterprise Architecture is not a great success. After thirty years, we still have the same problems. Chaos is still everywhere. Projects still fail far too often. In this book, (hidden) assumptions behind the existing approaches to enterprise architecture are challenged, and a more realistic perspective that helps us battle the complexities and unpredictabilities of today's Business-IT landscapes is described. Practical suggestions about enterprise architecture governance and products, based on real-world experience with the described approach,

complete the book. From general management to IT professionals, everyone who is confronted with the problem of managing Business-IT landscapes can profit from the insights this book offers. No specialist prior knowledge is required. Gerben Wierda is author of Mastering ArchiMate, and was, amongst other things, Lead Architect of the Judiciary in The Netherlands, Lead Architect of APG Asset Management, and is now Team Coordinator Architecture & Design at APG. He holds an M.Sc in Physics from the University of Groningen and an MBA from RSM Erasmus, Rotterdam.

### **Enterprise Integration and Information Architecture** - Li Da Xu 2014-07-10

Enterprise solutions have emerged as promising tools for integrating and extending business processes across business functions. Supplying a clear and comprehensive introduction to the field, this book provides a detailed description of enterprise information integration-from the development of enterprise systems to extended

enterprise information

**Securing Systems** - Brook S. E. Schoenfield

2015-05-20

Internet attack on computer systems is pervasive. It can take from less than a minute to as much as eight hours for an unprotected machine connected to the Internet to be completely compromised. It is the information security architect's job to prevent attacks by securing computer systems. This book describes both the process and the practice of as

**The Art of Scalability** - Martin L. Abbott

2015-05-23

The Comprehensive, Proven Approach to IT Scalability-Updated with New Strategies, Technologies, and Case Studies In The Art of Scalability, Second Edition, leading scalability consultants Martin L. Abbott and Michael T. Fisher cover everything you need to know to smoothly scale products and services for any requirement. This extensively revised edition reflects new technologies, strategies, and

lessons, as well as new case studies from the authors' pioneering consulting practice, AKF Partners. Writing for technical and nontechnical decision-makers, Abbott and Fisher cover everything that impacts scalability, including architecture, process, people, organization, and technology. Their insights and recommendations reflect more than thirty years of experience at companies ranging from eBay to Visa, and Salesforce.com to Apple. You'll find updated strategies for structuring organizations to maximize agility and scalability, as well as new insights into the cloud (IaaS/PaaS) transition, NoSQL, DevOps, business metrics, and more. Using this guide's tools and advice, you can systematically clear away obstacles to scalability-and achieve unprecedented IT and business performance. Coverage includes • Why scalability problems start with organizations and people, not technology, and what to do about it • Actionable lessons from real successes and failures • Staffing, structuring, and leading the

agile, scalable organization • Scaling processes for hyper-growth environments • Architecting scalability: proprietary models for clarifying needs and making choices—including 15 key success principles • Emerging technologies and challenges: data cost, datacenter planning, cloud evolution, and customer-aligned monitoring • Measuring availability, capacity, load, and performance

*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.

## **Handbook on Architectures of Information Systems** - Peter Bernus 2013-03-14

An authoritative source about methods, languages, methodologies and supporting tools for constructing information systems that also provides examples for references models. Its strength is the careful selection of each of the above mentioned components, based on technical merit. The second edition completely revises all articles and features new material on the latest developments in XML & UML. The structure follows the definition of the major components of Enterprise Integration as defined by GERAM (Generalised Enterprise Reference Architecture and Methodology). 1st edition sold about 600 copies since January 2003.

## **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.

Information Architecture - Wei Ding 2017-02-27  
Information Architecture is about organizing and simplifying information, designing and integrating information spaces/systems, and creating ways for people to find and interact with information content. Its goal is to help people understand and manage information and make the right decisions accordingly. This updated and revised edition of the book looks at integrated information spaces in the web context and beyond, with a focus on putting theories and principles into practice. In the ever-changing

social, organizational, and technological contexts, information architects not only design individual information spaces (e.g., websites, software applications, and mobile devices), but also tackle strategic aggregation and integration of multiple information spaces across websites, channels, modalities, and platforms. Not only do they create predetermined navigation pathways, but they also provide tools and rules for people to organize information on their own and get connected with others. Information architects work with multi-disciplinary teams to determine the user experience strategy based on user needs and business goals, and make sure the strategy gets carried out by following the user-centered design (UCD) process via close collaboration with others. Drawing on the authors' extensive experience as HCI researchers, User Experience Design practitioners, and Information Architecture instructors, this book provides a balanced view of the IA discipline by applying theories, design

principles, and guidelines to IA and UX practices. It also covers advanced topics such as iterative design, UX decision support, and global and mobile IA considerations. Major revisions include moving away from a web-centric view toward multi-channel, multi-device experiences. Concepts such as responsive design, emerging design principles, and user-centered methods such as Agile, Lean UX, and Design Thinking are discussed and related to IA processes and practices.

*Force.com Enterprise Architecture* - Andrew Fawcett 2017-03-31

Architect and deliver packaged Force.com applications that cater to enterprise business needs About This Book Explore the lightning framework, advanced application life cycle processes, and testing Use the Force.com platform to build truly integrated, scalable, and robustly engineered applications focused on enterprise-level customer demands Using the Lightning technology to deliver modern and



responsive user experiences targeting multiple devices through Lightning Experience and Salesforce1 Mobile. Step-by-step, work on examples to get you building your own ready-to-install packaged application

**Who This Book Is For** This book is for advanced Force.com developers and architects who need to understand the Salesforce platform from the perspective of enterprise-level requirements. A prior understanding of Apex and Visualforce is a must. Those familiar with other enterprise software ecosystems will also find this book ideal as they adopt Force.com.

**What You Will Learn** Package, install, test, and upgrade an application Define architecture-aligning data storage and functional requirements Develop Apex code that is easy to navigate, self-documenting, testable, robust, and organic Leverage your application's clientagnostic Service layer backbone to support numerous platform areas Get the most from hosting your application within the Lightning Experience and

Salesforce1 Mobile clients Apply querying, indexing, and asynchronous best practices Leverage mocking and dependency injection in your Apex tests Explore tips for developing advanced applications In Detail Companies of all sizes have seen the need for Force.com's architectural strategy focused on enabling their business objectives. Successful enterprise applications require planning, commitment, and investment in the best tools, processes, and features available. This book will teach you how to architect and support enduring applications for enterprise clients with Salesforce by exploring how to identify architecture needs and design solutions based on industry standard patterns. There are several ways to build solutions on Force.com, and this book will guide you through a logical path and show you the steps and considerations required to build packaged solutions from start to finish. It covers all aspects, from engineering to getting your application into the hands of your customers,

and ensuring that they get the best value possible from your Force.com application. You will get acquainted with extending tools such as Lightning App Builder, Process Builder, and Flow with your own application logic. In addition to building your own application API, you will learn the techniques required to leverage the latest Lightning technologies on desktop and mobile platforms. Style and approach The book takes a straightforward approach, taking apart the Force.com architecture for you to gain a deep understanding of how you can implement the Salesforce platform based on enterprise-level requirements.

### **A Practical Guide to Enterprise Architecture**

- James McGovern 2004

bull; Written by expert practitioners who have hands-on experience solving real-world problems for large corporations bull; Helps enterprise architects make sense of data, systems, software, services, product lines, methodologies, and much more bull; Provides explanation of

theory and implementation with real-world business examples to support key points

**Enterprise Architecture** - Gopala Krishna Behara 2015-11-18

A bicycle shed is a building, but the Lincoln Cathedral is a piece of architecture. -Nicholaus Pevsner, architectural historian

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Traditional building architecture and enterprise architecture use similar processes for developing their respective end products. The architect calls upon architecture's first principles and combines them with the experience of doing architecture in the real world. Experienced architects apply first principles and add practical experience to integrate fit, balance and compromise into the architectural process. Qualified enterprise architects possess applied first principles including the understanding that most architectural decisions are driven by business decisions, particularly business investment

decisions. This book brings the reader the insights from two enterprise architects with decades of real-world experience. The book consolidates the examples and experiences of innovative uses of enterprise architecture in enhancing transformation initiatives. The book clearly fills a gap in the current literature, and amplifies the role of enterprise architecture in building future-ready enterprises, an essential trait of all successful enterprises. Read it, learn from it, and put it to work for the future of your enterprise."

Principle Based Enterprise Architecture - Ian Koenig 2019-04-15

The Principle Based Enterprise Architecture (PBEA) Method is a proven approach for implementing an enterprise-wide architecture practice in large- and medium-sized technology organizations. The method begins with a set of architecture objectives linked to concepts that matter to the business. It then lays out how to build technology platforms from components we

call assets and how to manage those assets over time, through the calculation and management of technical debt. The PBEA method is a pragmatic approach to enterprise technology architecture which is based on the fundamental tenet that technology is never perfect, compromises must be made, and one of the most valuable functions an enterprise architecture group can provide for a company is a method for managing those compromises. We call the cost of these compromises "technical debt". It is essentially the difference between what we should have spent on technology and what we did spend. The PBEA method grew from the experience of watching how large technology organizations function (or do not function as the case may be). You will learn about such essential topics as: Best practices for building, managing, and ultimately evolving an enterprise architecture. Defining principles and golden rules to guide the high-quality creation of the building blocks of products and platforms

(assets). Calculating technical debt and assessing the business risk associated with carrying that debt. Identifying and managing the actions required to pay off technical debt and mitigate any associated business risk. If you have witnessed products and platforms 'collapsing under the burden of technical debt', then this book is for you. If you have seen technology organizations fail to learn from their mistakes, then this book is also for you. If you have been involved in the development of products where Version 2 required almost a rewrite of Version 1 or worked in technology organizations that spend an excessive portion of their budget on maintenance, then the PBEA method may provide both insight and benefit. Or if you are an enterprise architect and have witnessed one or more Enterprise Architecture functions get eliminated because they were seen as 'too ivory tower' and too distant from the customer, then this book will provide you with a concrete, fact-based approach for building an

enterprise architecture function that is fully aligned with business objectives and that delivers real measurable benefit to the corporation.

Enterprise System Architectures - Mark Goodyear 1999-09-28

Experts from Andersen Consulting show you how to combine computing, communications, and knowledge to deliver a uniquely new-and entirely indispensable-competitive advantage. Lead, Follow, or get out of the way Your company's ability to sustain a competitive advantage is in jeopardy. Your competitors can imitate and improve faster than ever. You need to find ways to help your company discover and deliver and astounding solution, control its costs, and move on the next astounding solution. Web-based computing is the vital technology enabler for today's most important business opportunities, like E-Commerce. It is also the flexible foundation for future solutions. However, because of the complexities and

difficulties it represents, it can be critical hurdle for IT shops and for an entire business. Enterprise Systems Architecture: Building Client/Server and Web-Based Systems is your guide through these complexities as you integrate your technology capabilities with your strategy, people, and processes to deliver astounding solutions. It introduces you to basic principles and concepts, provides an overview of state-of-the-art in client/server and Web-based computing models, and develops a solid business case for implementation. Acquaints you with various technologies involved and describes a comprehensive network computing architecture. Details crucial analysis, design, and implementation issues, including design specifics for architectures, applications, and network; rollout strategies; and ongoing management of distributed operations. Explores emerging technologies and their likely impact on the future of netcentric computing. Here you'll find detailed information on the architectures

and frameworks for network-based computing ... strategies for designing and implementing solutions ... strategies and methods for security. It also provides a full framework for testing applications, and in-depth discussion of transition frameworks for these environments, detailed costs and frameworks for managing the client/server environment, and much more.

*Enterprise Architecture at Work* - Marc Lankhorst 2005-12-05

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 and the other techniques presented have been proven in practice in many real-life case studies. 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.

*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.

*Enterprise Architecture for Global Companies in a Digital IT Era* - Yoshimasa Masuda 2019-01-24

This book investigates solutions incorporated by architecture boards in global enterprises to resolve issues and mitigate related architecture risks, while also proposing and implementing an adaptive integrated digital architecture framework (AIDAF) and related models and approaches/platforms, which can be applied in companies to promote IT strategies using cloud/mobile IT/digital IT. The book is divided into three main parts, the first of which (Chapters 1-2) addresses the background and motivation for AIDAF aligned with digital IT

strategies. The second part (Chapter 3) provides an overview of strategic enterprise architecture (EA) frameworks for digital IT, elaborates on the essential elements of EA frameworks in the digital IT era, and advocates using AIDAF, models for architecture assessment/risk management, knowledge management on digital platforms. In turn, the third part (Chapters 4-7) demonstrates the application and benefits of AIDAF and related models, as shown in three case studies. "I found this book to be a very nice contribution to the EA community of practice. I can recommend this book as a textbook for digital IT strategists/practitioners, EA practitioners, students in universities and graduate schools." (From the Foreword by Scott A. Bernard) "In this new age of the digital information society, it is necessary to advocate a new EA framework. This book provides state-of-the-art knowledge and practices about EA frameworks beneficial for IT practitioners, IT strategists, CIO, IT architects, and even

students. It serves as an introductory textbook for all who drive the information society in this era."(From the Foreword by Jun Murai)

### **Strategic Enterprise Architecture**

**Management** - Frederik Ahlemann 2012-01-05  
The Enterprise Architecture Management (EAM) discipline deals with the alignment of business and information systems architectures. While EAM has long been regarded as a discipline for IT managers, this book takes a different stance: It explains how top executives can use EAM to leverage their strategic planning and controlling processes, as well as how it can contribute to their sustainable competitive advantage. Based on the analysis of best practices from eight leading European companies from various industries, the book presents the crucial elements of successful EAM. It outlines what executives need to do in terms of governance, processes, methodologies, and culture in order to bring their management to the next level. Beyond this, the book points out how EAM could

develop in the next decade, thus allowing today's managers to prepare for the future architecture management.

**Strategic IT Management** - Inge Hanschke  
2009-12-05

For you as an IT manager, changes in business models and fast-paced innovation and product lifecycles pose a big challenge: you are required to anticipate the impact of future changes, and to make rapid decisions backed up by solid facts. To be successful you need an overall perspective of how business and IT interact. What you need is a toolkit, enabling you to manage the enterprise from a helicopter viewpoint while at the same time accommodating quite detailed aspects of processes, organization, and software lifecycles. Strategic IT management embraces all the processes required to analyze and document an enterprise's IT landscape. Based on the experience of many projects and long discussions with both customers and academic researchers, Inge Hanschke provides you with a

comprehensive and practical toolkit for the strategic management of your IT landscape. She takes a holistic view on the management process and gives guidelines on how to establish, roll out, and maintain an enterprise IT landscape effectively. She shows you how to do it right first time - because often enough there's no second chance. She tells you how to tidy up a IT patchworks - the first step towards strategic management - and she gives you advice on how to implement changes and maintain the landscape over time. The book's structure reflects the patterns that exist in strategic IT management from strategic planning to actual implementation. The presentation uses many checklists, guidelines, and illustrations, which will help you to immediately apply the content. So, if you are a CIO, an IT manager, a business manager, or an IT consultant, this is the book from which you'll benefit in most daily work situations.

**Modeling Enterprise Architecture with**



**TOGAF** - Philippe Desfray 2014-08-04  
Modeling Enterprise Architecture with TOGAF explains everything you need to know to effectively model enterprise architecture with The Open Group Architecture Framework (TOGAF), the leading EA standard. This solution-focused reference presents key techniques and illustrative examples to help you model enterprise architecture. This book describes the TOGAF standard and its structure, from the architecture transformation method to governance, and presents enterprise architecture modeling practices with plenty of examples of TOGAF deliverables in the context of a case study. Although widespread and growing quickly, enterprise architecture is delicate to manage across all its dimensions. Focusing on the architecture transformation method, TOGAF provides a wide framework, which covers the repository, governance, and a set of recognized best practices. The examples featured in this book were realized using the

open source Modelio tool, which includes extensions for TOGAF. Includes intuitive summaries of the complex TOGAF standard to let you effectively model enterprise architecture. Uses practical examples to illustrate ways to adapt TOGAF to the needs of your enterprise. Provides model examples with Modelio, a free modeling tool, letting you exercise TOGAF modeling immediately using a dedicated tool. Combines existing modeling standards with TOGAF.

[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.

Cloud Computing for Enterprise Architectures - Zaigham Mahmood 2011-12-01

This important text provides a single point of reference for state-of-the-art cloud computing design and implementation techniques. The book examines cloud computing from the perspective of enterprise architecture, asking the question; how do we realize new business potential with our existing enterprises? Topics and features: with a Foreword by Thomas Erl; contains contributions from an international selection of preeminent experts; presents the state-of-the-art in enterprise architecture approaches with

respect to cloud computing models, frameworks, technologies, and applications; discusses potential research directions, and technologies to facilitate the realization of emerging business models through enterprise architecture approaches; provides relevant theoretical frameworks, and the latest empirical research findings.

**Designing the Search Experience** - Tony Russell-Rose 2013-01-02

Search is not just a box and ten blue links. Search is a journey: an exploration where what we encounter along the way changes what we seek. In this book, the authors weave together the theories of information seeking with the practice of user interface design.

**Enterprise Architecture for Digital Business** - Tushar K. Hazra 2020-10-15

Enterprise Architecture (EA) is an essential part of the fabric of a business; however, EA also transcends and transforms technology and moves it into the business space. Therefore, EA

needs to be discussed in an integrated, holistic, and comprehensive manner. Only such an integrated approach to EA can provide the foundation for a transformation that readies the business for the myriad enterprise-wide challenges it will face. Highly disruptive technologies such as Big Data, Machine Learning, and Mobile and Cloud Computing require a fine balance between their business and technical aspects as an organization moves forward with its digital transformation. This book focuses on preparing all organizations – large and small – and those wishing to move into them for the impact of leveraging these emerging, disruptive, and innovative technologies within the EA framework.

**Enterprise Architecture as Strategy** - Jeanne W. Ross 2006

Enterprise architecture defines a firm's needs for standardized tasks, job roles, systems, infrastructure, and data in core business processes. This book explains enterprise

architecture's vital role in enabling - or constraining - the execution of business strategy. It provides frameworks, case examples, and more.

*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.

*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

**Enterprise Information Portals and Knowledge Management** - Joseph M. Firestone  
2007-08-15

Is the Enterprise Information Portal (EIP) knowledge management's killer app? Leading expert Joseph M. Firestone, the first author to formulate the idea of the Enterprise Knowledge Portal, breaks new ground and looks to the future with a practical, but comprehensive approach to enterprise portals and their relationship to knowledge management. Providing a clear and novel overview, Firestone tackles a wide range of topics ranging from functional EIP applications, estimating costs and benefits of EIPs, variations in EIP technical architecture, the role of intelligent agents, the nature of knowledge management, portal

product/solution segmentation, portal product case studies, to the future of the EIP space. 'Enterprise Information Portals and Knowledge Management' is the book on portals you've been waiting for. It is the only book that thoroughly considers, explores, and analyzes: \* The EIP orientation, outlook and evolution \* A new methodology for estimating EIP benefits and costs \* EIP and Enterprise Knowledge Portals (EKP) architecture \* The approaching role of software agents in EIPs and EKPs \* The current and future contribution of EIP and EKP solutions to Knowledge Management \* The role of XML in portal architecture \* A comprehensive, multi-dimensional, and forward-looking segmentation of EIP products accompanied by portal product case studies \* Where EIP sector companies are headed and the pathways they will follow to get there

Enterprise Business Architecture - Ralph Whittle  
2016-04-19

A critical part of any company's successful

strategic planning is the creation of an Enterprise Business Architecture (EBA) with its formal linkages. Strategic research and analysis firms have recognized the importance of an integrated enterprise architecture and they have frequently reported on its increasing value to successful companies. Enterpr

The Art of Enterprise - Nathan Richardson  
2021-12-24

The Art of Enterprise: Entrepreneurship in Design explores the form and nature of entrepreneurship in a range of creative disciplines. It explores the complex ecology of activities that enable design, entrepreneurship, and alternative methods of practice within a creative practice, and for the benefit and engagement of society. The book is structured in four thematic sections: the Alpha Room, Beta Portal, Gamma Field, and Delta State. Within each section, the chapters address such topics as experience, mindset, activity, collaboration, and value. In that sense, The Art of Enterprise is

composed of the way in which one experiences, thinks about, works, collaborates, and creates value in the mind, studio, prototype, and marketplace. It includes a curated selection of contemporary practices engaged in entrepreneurship around the world and interviews from leading entrepreneurs and design professionals capturing advice and inspiration. With an open-ended set of activities, charts, worksheets, and discussion questions, The Art of Enterprise fosters entrepreneurial thinking in formative projects and practices for students, academics, and professionals.

**Business Architecture** - Pierre Hadaya  
2017-03-23

History has shown that having a competitive advantage is critical to the success and long-term viability of all organizations. However, creating and sustaining such an advantage is a challenge. Organizations must formulate a winning strategy, surpass competitors at implementing and executing it, and excel at

adapting in response to internal and external events. Although organizations have applied numerous best practices to help them succeed in their strategic endeavors, they still face serious difficulties, which they can only surmount by adopting business architecture. The goal of this book is to describe what business architecture is; how it can help meet the challenge of formulating, implementing and executing an organization's strategy; and how to build and exploit a superior strategy management system that leverages business architecture.

Sustainable Enterprise Architecture - Kirk Hausman 2011-03-10

Enterprise architecture requires an understanding of all technologies, strategies, and data consumption throughout the enterprise. To this end, one must strive to always broaden knowledge of existing, as well as emerging trends and solutions. As a trade, this role demands an understanding beyond the specificities of technologies and vendor products

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.

## **A Practical Guide to Information**

**Architecture** - Donna Spencer 2010-12

**Architecting the Future Enterprise** - Deborah J. Nightingale 2015-02-13

Two experts in enterprise architecting lay out a holistic approach to creating a blueprint for future enterprise transformation. Every enterprise evolves continuously, driven by changing needs or new opportunities. Most often this happens gradually, with small adjustments to strategy, organization, processes, or infrastructure. But sometimes enterprises need to go beyond minor fixes and transform themselves, in response to a disruptive event or dramatically changing circumstances—a merger, for example, or a new competitor. In this book, enterprise architecting experts Deborah Nightingale and Donna Rhodes offer a framework for enterprise transformation. Successful transformation, they believe, starts with a holistic approach, taking into consideration all facets of the enterprise and its

environment rather than focusing solely on one factor—information technology, for example, or organizational structure. This is architecting the future enterprise: creating a blueprint for what the enterprise will look like after the transformation. Nightingale and Rhodes introduce the ARIES (Architecting Innovative Enterprise Strategy) framework, including a ten enterprise element model and an architecting process model, and show how to apply it, from start to finish. They explain how to create a holistic vision for the future enterprise and how to generate concepts and alternative architectures; they describe techniques for evaluating possible architectures, tools for implementation planning, and strategies for communicating with stakeholders. Nightingale and Rhodes offer real-world examples throughout, drawing on their work at MIT, with an extensive case study of enterprise transformation at a medical device manufacturer. An appendix offers two additional

architecting projects. Seven Architecting Imperatives • Make architecting the initial activity in transformation. • Develop a comprehensive understanding of the enterprise landscape. • Understand what stakeholders value and how that may change in the future. • Use multiple perspectives to see the whole enterprise. • Create an architecting team suited to the transformation challenges. • Engage all levels of leadership in transformation. • Architect for the enterprise's changing world.

Big Data and The Internet of Things - Robert Stackowiak 2015-05-07

Enterprise Information Architecture for a New Age: Big Data and The Internet of Things, provides guidance in designing an information architecture to accommodate increasingly large amounts of data, massively large amounts of data, not only from traditional sources, but also from novel sources such everyday objects that are fast becoming wired into global Internet. No business can afford to be caught out by missing

the value to be mined from the increasingly large amounts of available data generated by everyday devices. The text provides background as to how analytical solutions and enterprise architecture methodologies and concepts have evolved (including the roles of data warehouses, business intelligence tools, predictive analytics, data discovery, Big Data, and the impact of the Internet of Things). Then you're taken through a series of steps by which to define a future state architecture and create a plan for how to reach that future state. Enterprise Information Architecture for a New Age: Big Data and The Internet of Things helps you gain an understanding of the following: Implications of Big Data from a variety of new data sources (including data from sensors that are part of the Internet of Things) upon an information architecture How establishing a vision for data usage by defining a roadmap that aligns IT with

line-of-business needs is a key early step The importance and details of taking a step-by-step approach when dealing with shifting business challenges and changing technology capabilities How to mitigate risk when evaluating existing infrastructure and designing and deploying new infrastructure Enterprise Information Architecture for a New Age: Big Data and The Internet of Things combines practical advice with technical considerations. Author Robert Stackowiak and his team are recognized worldwide for their expertise in large data solutions, including analytics. Don't miss your chance to read this book and gain the benefit of their advice as you look forward in thinking through your own choices and designing your own architecture to accommodate the burgeoning explosion in data that can be analyzed and converted into valuable information to drive your business forward toward success.