

Mastering Core Essentials TOGAF Preliminary Phase Volume 1

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Advanced Information Systems Engineering Workshops - Xavier Franch 2013-06-20

This book constitutes the thoroughly refereed proceedings of eight international workshops held in Valencia, Spain, in conjunction with the 25th International Conference on Advanced Information Systems Engineering, CAiSE 2013, in June 2013. The 36 full and 12 short papers have undertaken a high-quality and selective acceptance policy, resulting in acceptance rates of up to 50% for full research papers. The eight workshops were Approaches for Enterprise Engineering Research (AppEER), International Workshop on BUSiness/IT ALignment and Interoperability (BUSITAL), International Workshop on Cognitive Aspects of Information Systems Engineering (COGNISE), Workshop on Human-Centric Information Systems (HC-IS), Next Generation Enterprise and Business Innovation Systems (NGEBIS), International Workshop on Ontologies and Conceptual Modeling (OntoCom), International Workshop on Variability Support in Information Systems (VarIS), International Workshop on Information Systems Security Engineering (WISSE).

CBAP / CCBA Certified Business Analysis Study Guide - Susan Weese 2017-01-04

The bestselling CBAP/CCBA study guide, updated for exam v3.0 The CBAP/CCBA Certified Business Analysis Study Guide, Second Edition offers 100% coverage of all exam objectives for the Certified Business Analysis Professional (CBAP) and Certification of Competency in Business Analysis (CCBA) exams offered by the

International Institute of Business Analysis (IIBA). Detailed coverage encompasses all six knowledge areas defined by the Guide to Business Analysis Body of Knowledge (BABOK): Planning and Monitoring, Elicitation, Requirements Management and Communication, Enterprise Analysis, Requirements Analysis, and Solution Assessment and Validation, including expert guidance toward all underlying competencies. Real-world scenarios help you align your existing experience with the BABOK, and topic summaries, tips and tricks, practice questions, and objective-mapping give you a solid framework for success on the exam. You also gain access to the Sybex interactive learning environment, featuring review questions, electronic flashcards, and four practice exams to help you gauge your understanding and be fully prepared exam day. As more and more organizations seek to streamline production models, the demand for qualified Business Analysts is growing. This guide provides a personalized study program to help you take your place among those certified in essential business analysis skills. Review the BABOK standards and best practices Master the core Business Analysis competencies Test your preparedness with focused review questions Access CBAP and CCBA practice exams, study tools, and more As the liaison between the customer and the technical team, the Business Analyst is integral to ensuring that the solution satisfies the customer's needs. The BABOK standards codify best practices for this essential

role, and the CBAP and CCBA certifications prove your ability to perform them effectively. The CBAP/CCBA Certified Business Analysis Study Guide, Second Edition provides thorough preparation customizable to your needs, to help you maximize your study time and ensure your success.

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.

TOGAF® Version 9.1 - The Open Group 2011-01-01

For trainers free additional material of this book is available. This can be found under the "Training Material" tab. Log in with your trainer account to access the material. TOGAF is a framework - a detailed method and a set of supporting tools - for developing an enterprise architecture, developed by members of The Open Group Architecture Forum. TOGAF Version 9.1 is a maintenance update to TOGAF 9, addressing comments raised since the introduction of TOGAF 9 in 2009. It retains the major features and structure of TOGAF 9, thereby preserving existing investment in TOGAF, and adds further detail and clarification to what is already proven. It may be used freely by any organization wishing to develop an enterprise architecture for use within that organization (subject to the Conditions of Use). This Book is divided into seven parts: Part I - Introduction This part provides a high-level introduction to the key concepts of enterprise architecture and in particular the TOGAF approach. It contains the definitions of terms used throughout TOGAF and release notes detailing the changes between this version and the previous version of TOGAF. Part II - Architecture Development Method This is the core of TOGAF. It describes the TOGAF Architecture Development Method (ADM) a step-by-step approach to developing an enterprise architecture. Part III - ADM Guidelines & Techniques This part contains a collection of guidelines and techniques available for use in

applying TOGAF and the TOGAF ADM. Part IV - Architecture Content Framework This part describes the TOGAF content framework, including a structured metamodel for architectural artifacts, the use of re-usable architecture building blocks, and an overview of typical architecture deliverables. Part V - Enterprise Continuum & Tools This part discusses appropriate taxonomies and tools to categorize and store the outputs of architecture activity within an enterprise. Part VI - TOGAF Reference Models This part provides a selection of architectural reference models, which includes the TOGAF Foundation Architecture, and the Integrated Information Infrastructure Reference Model (III-RM). Part VII Architecture Capability Framework This section looks at roles, Governance, compliance skills and much more practical guidance

Design of Enterprise Systems - Ronald Giachetti 2016-04-19

In practice, many different people with backgrounds in many different disciplines contribute to the design of an enterprise. Anyone who makes decisions to change the current enterprise to achieve some preferred structure is considered a designer. What is problematic is how to use the knowledge of separate aspects of the enterprise to achieve a glob

Big Data Analytics Strategies for the Smart Grid - Carol L. Stimmel 2016-04-19

By implementing a comprehensive data analytics program, utility companies can meet the continually evolving challenges of modern grids that are operationally efficient, while reconciling the demands of greenhouse gas legislation and establishing a meaningful return on investment from smart grid deployments. Readable and accessible, Big Data Analytic

The Complete Business Process Handbook - Mark von Rosing 2014-12-06

The Complete Business Process Handbook is the most comprehensive body of knowledge on business processes with revealing new research. Written as a practical guide for Executives, Practitioners, Managers and Students by the authorities that have shaped the way we think and work with process today. It stands out as a masterpiece, being part of the BPM bachelor and master degree curriculum at universities around the world, with revealing academic

research and insight from the leaders in the market. This book provides everything you need to know about the processes and frameworks, methods, and approaches to implement BPM. Through real-world examples, best practices, LEADing practices and advice from experts, readers will understand how BPM works and how to best use it to their advantage. Cases from industry leaders and innovators show how early adopters of LEADing Practices improved their businesses by using BPM technology and methodology. As the first of three volumes, this book represents the most comprehensive body of knowledge published on business process. Following closely behind, the second volume uniquely bridges theory with how BPM is applied today with the most extensive information on extended BPM. The third volume will explore award winning real-life examples of leading business process practices and how it can be replaced to your advantage. Learn what Business Process is and how to get started Comprehensive historical process evolution In-depth look at the Process Anatomy, Semantics and Ontology Find out how to link Strategy to Operation with value driven BPM Uncover how to establish a way of Thinking, Working, Modelling and Implementation Explore comprehensive Frameworks, Methods and Approaches How to build BPM competencies and establish a Center of Excellence Discover how to apply Social BPM, Sustainable and Evidence based BPM Learn how Value & Performance Measurement and Management Learn how to roll-out and deploy process Explore how to enable Process Owners, Roles and Knowledge Workers Discover how to Process and Application Modelling Uncover Process Lifecycle, Maturity, Alignment and Continuous Improvement Practical continuous improvement with the way of Governance Future BPM trends that will affect business Explore the BPM Body of Knowledge

97 Things Every Programmer Should Know -

Kevlin Henney 2010-02-05

Tap into the wisdom of experts to learn what every programmer should know, no matter what language you use. With the 97 short and extremely useful tips for programmers in this book, you'll expand your skills by adopting new approaches to old problems, learning

appropriate best practices, and honing your craft through sound advice. With contributions from some of the most experienced and respected practitioners in the industry--including Michael Feathers, Pete Goodliffe, Diomidis Spinellis, Cay Horstmann, Verity Stob, and many more--this book contains practical knowledge and principles that you can apply to all kinds of projects. A few of the 97 things you should know: "Code in the Language of the Domain" by Dan North "Write Tests for People" by Gerard Meszaros "Convenience Is Not an -ility" by Gregor Hohpe "Know Your IDE" by Heinz Kabutz "A Message to the Future" by Linda Rising "The Boy Scout Rule" by Robert C. Martin (Uncle Bob) "Beware the Share" by Udi Dahan

.NET Design Patterns - Praseed Pai

2017-01-31

Explore the world of .NET design patterns and bring the benefits that the right patterns can offer to your toolkit today About This Book Dive into the powerful fundamentals of .NET framework for software development The code is explained piece by piece and the application of the pattern is also showcased. This fast-paced guide shows you how to implement the patterns into your existing applications Who This Book Is For This book is for those with familiarity with .NET development who would like to take their skills to the next level and be in the driver's seat when it comes to modern development techniques. Basic object-oriented C# programming experience and an elementary familiarity with the .NET framework library is required. What You Will Learn Put patterns and pattern catalogs into the right perspective Apply patterns for software development under C#/.NET Use GoF and other patterns in real-life development scenarios Be able to enrich your design vocabulary and well articulate your design thoughts Leverage object/functional programming by mixing OOP and FP Understand the reactive programming model using Rx and RxJs Writing compositional code using C# LINQ constructs Be able to implement concurrent/parallel programming techniques using idioms under .NET Avoiding pitfalls when creating compositional, readable, and maintainable code using imperative, functional, and reactive code. In Detail Knowing about design patterns enables developers to improve

their code base, promoting code reuse and making their design more robust. This book focuses on the practical aspects of programming in .NET. You will learn about some of the relevant design patterns (and their application) that are most widely used. We start with classic object-oriented programming (OOP) techniques, evaluate parallel programming and concurrency models, enhance implementations by mixing OOP and functional programming, and finally to the reactive programming model where functional programming and OOP are used in synergy to write better code. Throughout this book, we'll show you how to deal with architecture/design techniques, GoF patterns, relevant patterns from other catalogs, functional programming, and reactive programming techniques. After reading this book, you will be able to convincingly leverage these design patterns (factory pattern, builder pattern, prototype pattern, adapter pattern, facade pattern, decorator pattern, observer pattern and so on) for your programs. You will also be able to write fluid functional code in .NET that would leverage concurrency and parallelism! Style and approach This tutorial-based book takes a step-by-step approach. It covers the major patterns and explains them in a detailed manner along with code examples.

Software Architecture: A Case Based

Approach - Vasudeva Varma 2009-09

The book discusses the discipline of Software Architecture using real-world case studies and poses pertinent questions that arouse objective thinking. With the help of case studies and in-depth analyses, it delves into the core issues and challenges of software architecture.

Software Architecture Knowledge

Management - Muhammad Ali Babar

2010-05-03

A software architecture manifests the major early design decisions, which determine the system's development, deployment and evolution. Thus, making better architectural decisions is one of the large challenges in software engineering. Software architecture knowledge management is about capturing practical experience and translating it into generalized architectural knowledge, and using this knowledge in the communication with stakeholders during all phases of the software

lifecycle. This book presents a concise description of knowledge management in the software architecture discipline. It explains the importance of sound knowledge management practices for improving software architecture processes and products, and makes clear the role of knowledge management in software architecture and software development processes. It presents many approaches that are in use in software companies today, approaches that have been used in other domains, and approaches under development in academia. After an initial introduction by the editors, the contributions are grouped in three parts on "Architecture Knowledge Management", "Strategies and Approaches for Managing Architectural Knowledge", and "Tools and Techniques for Managing Architectural Knowledge". The presentation aims at information technology and software engineering professionals, in particular software architects and software architecture researchers. For the industrial audience, the book gives a broad and concise understanding of the importance of knowledge management for improving software architecture process and building capabilities in designing and evaluating better architectures for their mission- and business-critical systems. For researchers, the book will help to understand the applications of various knowledge management approaches in an industrial setting and to identify research challenges and opportunities.

Trends and Challenges in Digital Business

Innovation - Vincenzo Morabito 2014-02-04

This book describes the trends in digital innovation that are of most importance for businesses and explores the key challenges. The book is in three parts, the first of which focuses on developments in digital systems. Here, the ever-growing relevance of big data, cloud computing, and mobile services for business is discussed, and detailed consideration is given to the importance of social listening for understanding user behavior and needs and the implications of IT consumerization. In the second part, trends in digital management are examined, with chapters devoted to work practice, digital business identity as well as branding and governance. The final part of the book presents and reviews case studies of digital

innovation at the global level that provide a benchmark of best practices, with inclusion of instructive fact sheets. While the book offers academic coverage of the digital transformation of business organizations and the associated challenges, it also describes concrete, real-world issues in clear, easy-to-understand language and will serve as a toolbox for managers that can be readily consulted. The text is supported by informative illustrations and tables, and practitioners will also benefit from the reported case studies and highlighted insights and recommendations.

Advanced Information Systems Engineering Workshops - Camille Salinesi 2011-06-17

This book constitutes the thoroughly refereed proceedings of ten international workshops held in London, UK, in conjunction with the 23rd International Conference on Advanced Information Systems Engineering, CAiSE 2011, in June 2011. The 59 revised papers were carefully selected from 139 submissions. The ten workshops included Business/IT Alignment and Interoperability (BUSITAL), Conceptualization of Modelling Methods (CMM), Domain Specific Engineering (DsE@CAiSE), Governance, Risk and Compliance (GRCIS), Integration of IS Engineering Tools (INISSET), System and Software Architectures (IWSSA), Ontology-Driven Information Systems Engineering (ODISE), Ontology, Models, Conceptualization and Epistemology in Social, Artificial and Natural Systems (ONTOSE), Semantic Search (SSW), and Information Systems Security Engineering (WISSE).

Digital Business Analysis - Fredrik Milani 2019-01-25

This book frames business analysis in the context of digital technologies. It introduces modern business analysis techniques, including a selection of those in the Business Analysis Body of Knowledge (BABOK) by the International Institute of Business Analysis (IIBA), and exemplifies them by means of digital technologies applied to solve problems or exploit new business opportunities. It also includes in-depth case studies in which business problems and opportunities, drawn from real-world scenarios, are mapped to digital solutions. The work is summarized in seven guiding principles that should be followed by every business

analyst. This book is intended mainly for students in business informatics and related areas, and for professionals who want to acquire a solid background for their daily work. It is suitable both for courses and for self-study. Additional teaching materials such as lecture videos, slides, question bank, exams, and seminar materials are accessible on the companion web-page.

Cloud Enterprise Architecture - Pethuru Raj 2012-10-24

Cloud Enterprise Architecture examines enterprise architecture (EA) in the context of the surging popularity of Cloud computing. It explains the different kinds of desired transformations the architectural blocks of EA undergo in light of this strategically significant convergence. Chapters cover each of the contributing architectures of EA—business, information, application, integration, security, and technology—illustrating the current and impending implications of the Cloud on each. Discussing the implications of the Cloud paradigm on EA, the book details the perceptible and positive changes that will affect EA design, governance, strategy, management, and sustenance. The author ties these topics together with chapters on Cloud integration and composition architecture. He also examines the Enterprise Cloud, Federated Clouds, and the vision to establish the InterCloud. Laying out a comprehensive strategy for planning and executing Cloud-inspired transformations, the book: Explains how the Cloud changes and affects enterprise architecture design, governance, strategy, management, and sustenance Presents helpful information on next-generation Cloud computing Describes additional architectural types such as enterprise-scale integration, security, management, and governance architectures This book is an ideal resource for enterprise architects, Cloud evangelists and enthusiasts, and Cloud application and service architects. Cloud center administrators, Cloud business executives, managers, and analysts will also find the book helpful and inspirational while formulating appropriate mechanisms and schemes for sound modernization and migration of traditional applications to Cloud infrastructures and platforms.

Competences of IT Architects -

From Enterprise Architecture to IT Governance - Klaus D. Niemann 2007-08-19

This book shows its readers how to achieve the goal of genuine IT governance. The key here is the successful development of enterprise architecture as the necessary foundation. With its capacity to span and integrate business procedures, IT applications and IT infrastructure, enterprise architecture opens these areas up to analysis and makes them rich sources of critical data. Enterprise architecture thereby rises to the status of a crucial management information system for the CIO. The focused analysis of the architecture (its current and future states) illuminates the path to concrete IT development planning and the cost-effective and beneficial deployment of IT. Profit from the author's firsthand experience - proven approaches firmly based in enterprise reality.

Enterprise Architecture Patterns - Thierry Perroud 2013-07-19

Every enterprise architect faces similar problems when designing and governing the enterprise architecture of a medium to large enterprise. Design patterns are a well-established concept in software engineering, used to define universally applicable solution schemes. By applying this approach to enterprise architectures, recurring problems in the design and implementation of enterprise architectures can be solved over all layers, from the business layer to the application and data layer down to the technology layer. Inversini and Perroud describe patterns at the level of enterprise architecture, which they refer to as Enterprise Architecture Patterns. These patterns are motivated by recurring problems originating from both the business and the underlying application, or from data and technology architectures of an enterprise such as identity and access management or integration needs. The Enterprise Architecture Patterns help in planning the technological and organizational landscape of an enterprise and its information technology, and are easily embedded into frameworks such as TOGAF, Zachman or FEA. This book is aimed at enterprise architects, software architects, project leaders, business consultants and everyone concerned with

questions of IT and enterprise architecture and provides them with a comprehensive catalogue of ready-to-use patterns as well as an extensive theoretical framework to define their own new patterns.

Model Driven Architecture and Ontology Development - Dragan Gašević 2006-11-22

Defining a formal domain ontology is considered a useful, not to say necessary step in almost every software project. This is because software deals with ideas rather than with self-evident physical artefacts. However, this development step is hardly ever done, as ontologies rely on well-defined and semantically powerful AI concepts such as description logics or rule-based systems, and most software engineers are unfamiliar with these. This book fills this gap by covering the subject of MDA application for ontology development on the Semantic Web. The writing is technical yet clear, and is illustrated with examples. The book is supported by a website.

TOGAF® Version 9 - A Pocket Guide - The Open Group 2009-02-02

This is the official Open Group Pocket Guide for TOGAF Version 9 Enterprise Edition. This pocket guide is published by Van Haren Publishing on behalf of The Open Group. TOGAF, The Open Group Architectural Framework is a fast growing, worldwide accepted standard that can help organisations build their own Enterprise Architecture in a standardised way. This book explains why the in's and out's of TOGAF in a concise manner. This book explains how TOGAF can help to make an Enterprise Architecture. Enterprise Architecture is an approach that can help management to understand this growing complexity.

97 Things Every Software Architect Should Know - Richard Monson-Haefel 2009-02-05

In this truly unique technical book, today's leading software architects present valuable principles on key development issues that go way beyond technology. More than four dozen architects -- including Neal Ford, Michael Nygard, and Bill de hOra -- offer advice for communicating with stakeholders, eliminating complexity, empowering developers, and many more practical lessons they've learned from years of experience. Among the 97 principles in this book, you'll find useful advice such as: Don't

Put Your Resume Ahead of the Requirements (Nitin Borwankar) Chances Are, Your Biggest Problem Isn't Technical (Mark Ramm) Communication Is King; Clarity and Leadership, Its Humble Servants (Mark Richards) Simplicity Before Generality, Use Before Reuse (Kevlin Henney) For the End User, the Interface Is the System (Vinayak Hegde) It's Never Too Early to Think About Performance (Rebecca Parsons) To be successful as a software architect, you need to master both business and technology. This book tells you what top software architects think is important and how they approach a project. If you want to enhance your career, 97 Things Every Software Architect Should Know is essential reading.

Enterprise Ontology - Jan Dietz 2006-05-16

If one thing catches the eye in almost all literature about (re)designing or (re)engineering of enterprises, it is the lack of a well-founded theory about their construction and operation. Often even the most basic notions like "action" or "process" are not precisely defined. Next, in order to master the diversity and the complexity of contemporary enterprises, theories are needed that separate the stable essence of an enterprise from the variable way in which it is realized and implemented. Such a theory and a matching methodology, which has passed the test of practical experience, constitute the contents of this book. The enterprise ontology, as developed by Dietz, is the starting point for profoundly understanding the organization of an enterprise and subsequently for analyzing, (re)designing, and (re)engineering it. The approach covers numerous issues in an integrated way: business processes, in- and outsourcing, information systems, management control, staffing etc. Researchers and students in enterprise engineering or related fields will discover in this book a revolutionary new way of thinking about business and organization. In addition, it provides managers, business analysts, and enterprise information system designers for the first time with a solid and integrated insight into their 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.

Business Model Generation - Alexander Osterwalder 2013-02-01

Business Model Generation is a handbook for visionaries, game changers, and challengers striving to defy outmoded business models and design tomorrow's enterprises. If your organization needs to adapt to harsh new realities, but you don't yet have a strategy that will get you out in front of your competitors, you need Business Model Generation. Co-created by 470 "Business Model Canvas" practitioners from 45 countries, the book features a beautiful, highly visual, 4-color design that takes powerful strategic ideas and tools, and makes them easy to implement in your organization. It explains the most common Business Model patterns, based on concepts from leading business thinkers, and helps you reinterpret them for your own context. You will learn how to systematically understand, design, and implement a game-changing business model--or analyze and renovate an old one. Along the way, you'll understand at a much deeper level your customers, distribution channels, partners, revenue streams, costs, and your core value proposition. Business Model Generation features practical innovation techniques used today by leading consultants and companies worldwide, including 3M, Ericsson, Capgemini, Deloitte, and others. Designed for doers, it is for those ready to abandon outmoded thinking and embrace new models of value creation: for executives, consultants, entrepreneurs, and leaders of all organizations. If you're ready to change the rules, you belong to "the business model generation!"

Business Process Change - Paul Harmon 2014-04-26

Business Process Change, 3rd Edition provides a balanced view of the field of business process change. Bestselling author Paul Harmon offers concepts, methods, cases for all aspects and phases of successful business process improvement. Updated and added for this edition is new material on the development of business models and business process architecture development, on integrating decision management models and business

rules, on service processes and on dynamic case management, and on integrating various approaches in a broad business process management approach. New to this edition: How to develop business models and business process architecture How to integrate decision management models and business rules New material on service processes and on dynamic case management Learn to integrate various approaches in a broad business process management approach Extensive revision and update addresses Business Process Management Systems, and the integration of process redesign and Six Sigma Learn how all the different process elements fit together in this best first book on business process, now completely updated Tailor the presented methodology, which is based on best practices, to your organization's specific needs Understand the human aspects of process redesign Benefit from all new detailed case studies showing how these methods are implemented

A Manager's Guide to Data Warehousing -

Laura Reeves 2009-05-26

Aimed at helping business and IT managers clearly communicate with each other, this helpful book addresses concerns straight-on and provides practical methods to building a collaborative data warehouse . You'll get clear explanations of the goals and objectives of each stage of the data warehouse lifecycle while learning the roles that both business managers and technicians play at each stage. Discussions of the most critical decision points for success at each phase of the data warehouse lifecycle help you understand ways in which both business and IT management can make decisions that best meet unified objectives.

Information Technology for Managers -

George Reynolds 2015-06-26

Now today's managers can prepare to successfully oversee and understand information systems with Reynold's INFORMATION TECHNOLOGY FOR MANAGERS, 2E. This practical, insightful book prepares current and future managers to understand the critical business implications of information technology. A wealth of actual contemporary examples demonstrate how successful managers can apply information technology to improve their organizations. A new chapter on IT security,

hands-on scenarios and practical cases give readers an opportunity to apply what they're learning. This edition's solid framework helps define the manager's important role in information technology and in working effectively with all members of the organization to achieve results. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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.

ArchiMate® 2.1 Specification - The Open Group 2016-01-01

ArchiMate®, an Open Group Standard, is an open and independent modelling language for Enterprise Architecture that is supported by different tool vendors and consulting firms.

ArchiMate provides instruments to enable enterprise architects to describe, analyze, and visualize the relationships among business domains in an unambiguous way. This book provides the official specification of ArchiMate 2.1 from The Open Group. ArchiMate 2.1 is a maintenance update to ArchiMate 2.0, addressing comments raised since the introduction of ArchiMate 2.0 in 2012. The ArchiMate 2.1 Standard supports modelling throughout the TOGAF® Architecture Development Method (ADM). The intended audience is threefold: Enterprise Architecture practitioners, such as architects (e.g. application, information, process, infrastructure, and, obviously, enterprise architects), senior and operational management, project leaders, and anyone committed to work within the reference framework defined by the Enterprise Architecture. Those who intend to implement ArchiMate in a software tool; they will find a complete and detailed description of the language in this book. The academic community, on which we rely for amending and improving the language, based on state-of-the-art research results in the enterprise architecture field.

Product Lifecycle Management (Volume 4): The Case Studies - John Stark 2019-05-07

This book presents some twenty case studies, showing how companies in different industry sectors and of different sizes make advances in Product Lifecycle Management (PLM). Like the author's previous volumes, this book provides a valuable resource for those wishing to learn about PLM and how to implement and apply it in their companies. Helping readers to · learn about implementing and benefiting from PLM; · learn about good PLM solutions and best practice; · improve their planning and decision-making abilities; · benefit from the lessons learned by the companies featured in the case studies; · proceed faster and further with PLM the book presents effective PLM solutions and best practices. At the same time, the case studies included demonstrate how different companies implement and benefit from PLM. Each case study is addressed in a separate chapter and details a different situation, enabling readers to put themselves in the situation and think through different actions and decisions. A valuable resource for PLM team

managers and employees in engineering and manufacturing companies, the book is also of interest to researchers and students in industrial engineering fields.

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.

Information Systems for Small and Medium-sized Enterprises - Jan Devos 2013-10-04

This book establishes and explores existing and emerging theories on Small and Medium-sized Enterprises (SMEs) and the adoption of IT/IS. It presents the latest empirical research findings in that area of IS research and explores new technologies and practices. The book is written for researchers and professionals working in the field of IS research or the research of SMEs. Moreover, the book will be a reference for researchers, professionals and students in management information systems science and related fields.

Enterprise Modeling - Kurt Sandkuhl 2014-09-15

Enterprise modeling (EM) methods and techniques are indispensable for understanding the present situation of an enterprise and for preparing for its future – particularly in times of continuous organizational change, an increasing

pace of innovation, new market challenges or technology advances. The authors combine a detailed description of the 4EM methodology with their concrete experience gathered in projects. Their book addresses the modeling procedure, modeling language and modeling practices in a uniquely integrated approach. It provides practical advice on common challenges faced by enterprises and offers a flexible EM method suitable for tackling those challenges. Much of the work presented stems from actual research projects and has been validated with scientific methods. The 4EM methodology has proven its practical value in a large number of successful development and/or change management projects in industry and the public sector. The book was written for anyone who wants to learn more about EM, with a specific focus on how to do it in practice and/or how to teach it. Its main target audience thus includes instructors in the field of EM or business information systems, students in Information Systems or Business Administration, and practitioners working in enterprise or change management. The authors describe a clear reading path for each of these audiences and complement the work with a set of slides and further teaching material available under www.4em-method.com.

Advanced Intelligent Systems for Sustainable Development (AI2SD'2019) -

Mostafa Ezziyyani 2020-02-05

This book gathers papers presented at the second installment of the International Conference on Advanced Intelligent Systems for Sustainable Development (AI2SD-2019), which was held on July 08-11, 2019 in Marrakech, Morocco. It offers comprehensive coverage of recent advances in big data, data analytics and related paradigms. The book consists of fifty-two chapters, each of which shares the latest research in the fields of big data and data science, and describes use cases and applications of big data technologies in various domains, such as social networks and health care. All parts of the book discuss open research problems and potential opportunities that have arisen from the rapid advances in big data technologies. In addition, the book surveys the state of the art in data science, and provides practical guidance on big data analytics and data

science. Expert perspectives are provided by authoritative researchers and practitioners from around the world, who discuss research developments and emerging trends, present case studies on helpful frameworks and innovative methodologies, and suggest best practices for efficient and effective data analytics. Chiefly intended for researchers, IT professionals and graduate students, the book represents a timely contribution to the growing field of big data, which has been recognized as one of the leading emerging technologies that will have a major impact on various fields of science and various aspects of human society over the next several decades. Therefore, the content in this book is an essential tool to help readers understand current developments, and provides them with an extensive overview of the field of big data analytics as it is practiced today. The chapters cover technical aspects of key areas that generate and use big data, such as management and finance, medicine and health care, networks, the Internet of Things, big data standards, benchmarking of systems, and others. In addition to a diverse range of applications, key algorithmic approaches such as graph partitioning, clustering and finite mixture modeling of high-dimensional data are also covered. The varied collection of topics addressed introduces readers to the richness of the emerging field of big data analytics.

Product Lifecycle Management for Digital Transformation of Industries - Ramy Harik
2017-03-15

This book constitutes the refereed proceedings of the 13th IFIP WG 5.1 International Conference on Product Lifecycle Management, PLM 2016, held in Columbia, SC, USA, in July 2016. The 57 revised full papers presented were carefully reviewed and selected from 77 submissions. The papers are organized in the following topical sections: knowledge sharing, re-use and preservation; collaborative development architectures; interoperability and systems integration; lean product development and the role of PLM; PLM and innovation; PLM tools; cloud computing and PLM tools; traceability and performance; building information modeling; big data analytics and business intelligence; information lifecycle management; industry 4.0; metrics, standards

and regulation; and product, service and systems.

Dynamic Enterprise Architecture - Roel Wagter 2005-02-22

This book presents an approach to enterprise architecture, which enables corporations to achieve their business objectives faster. Focusing on the governance of IT in the organization, it provides tangible tools, advice and strategies for implementing and designing the architectural process within a corporation that will make a major contribution in driving the business forward and achieve its goals.

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.

Open Agile Architecture™ - A publication of The Open Group

Open Agile Architecture™, a standard of The Open Group, offers an approach to architect at scale with agility. It provides guidance and best practices for Enterprise Architects seeking to transition into Agile and Digital contexts. Empowering an Enterprise to Succeed with its Digital-Agile Transformation Agile teams drive the enterprise's Digital Transformation by inventing new business models, delivering superior customer experiences, developing digital products, and architecting highly-automated operating systems. The Open Agile Architecture Standard was designed keeping the needs of all business stakeholders in mind: Business Leaders - to drive the enterprise's Digital and Agile change journey Enterprise Architects - to extend their scope of influence in an Agile at scale world Product Managers - to help transform customer experience, innovate products, and generate growth Product Owners - to accelerate their transformation from managing feature backlogs to steering value delivery Operations Managers - to enable them to leverage Lean and automation to generate sustainable competitive advantages Software Engineers - to leverage the power of digital technologies to co-innovate with the business The more Agile the enterprise, the faster the learning cycles, and faster learning cycles translate to shorter time-to-market resulting in more agility. By adopting an Open Agile Architecture approach, your organization can capitalize on this accelerated learning cycle, meaning your Agile and Digital capabilities continuously and simultaneously co-create one another.

Transforming Campus Networks to Intent-Based Networking - Pieter-Jan Nefkens 2019-12-23

Migrate to Intent-Based Networking-and improve network manageability, cost, agility, security, and simplicity With Intent-Based Networking (IBN), you can create networks that capture and automatically activate business intent, assure that your network responds properly, proactively detect and contain security threats, and remedy network issues before users even notice. Intent-Based Networking makes networks far more valuable, but few

organizations have the luxury of building them from the ground up. In this book, leading expert Pieter-Jans Nefkens presents a unique four-phase approach to preparing and transforming campus network infrastructures, architectures, and organization—helping you gain maximum value from IBN with minimum disruption and cost. The author reviews the problems IBN is intended to solve, and illuminates its technical, business, and cultural implications. Drawing on his pioneering experience, he makes specific recommendations, identifies pitfalls, and shows how to overcome them. You'll learn how to implement IBN with the Cisco Digital Network Architecture and DNA Center and walk through real-world use cases. In a practical appendix, Nefkens even offers detailed technical configurations to jumpstart your own transformation. Review classic campus network deployments and understand why they need to change Learn how Cisco Digital Network Architecture (DNA) provides a solid foundation for state-of-the-art next generation network infrastructures Understand "intent" and how it can be applied to network infrastructure Explore tools for enabling, automating, and assuring Intent-Based Networking within campus networks Transform to Intent-Based Networking using a four-phased approach: Identify challenges; Prepare for Intent; Design and Deploy; and Enable Intent Anticipate how Intent-Based Networking will change your enterprise architecture, IT operations, and business

Managing Digital - Charles Betz

About This Book This book, "Managing Digital:

Concepts and Practices", is intended to guide a practitioner through the journey of building a digital-first viewpoint and the skills needed to thrive in the digital-first world. As such, this book is a bit of an experiment for The Open Group; it isn't structured as a traditional standard or guide. Instead, it is structured to show the key issues and skills needed at each stage of the digital journey, starting with the basics of a small digital project, eventually building to the concerns of a large enterprise. So, feel free to digest this book in stages — the section Introduction for the student is a good guide. The book is intended for both academic and industry training purposes. This book seeks to provide guidance for both new entrants into the digital workforce and experienced practitioners seeking to update their understanding on how all the various themes and components of IT management fit together in the new world. About The Open Group Press The Open Group Press is an imprint of The Open Group for advancing knowledge of information technology by publishing works from individual authors within The Open Group membership that are relevant to advancing The Open Group mission of Boundaryless Information Flow™. The key focus of The Open Group Press is to publish high-quality monographs, as well as introductory technology books intended for the general public, and act as a complement to The Open Group Standards, Guides, and White Papers. The views and opinions expressed in this book are those of the author, and do not necessarily reflect the consensus position of The Open Group members or staff.