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Complex Enterprise Architecture Designing Enterprise Architecture Frameworks agendaCPS TOGAF® Business Architecture Level 1 Study Guide **Strategiegetriebene Geschäftsarchitekturen** *Cloud Computing for Enterprise Architectures* **Ein Framework zur Architekturbeschreibung von sozio-technischen maritimen Systemen The TOGAF ® Standard, Version 9.2 - A Pocket Guide A Systemic Perspective to Managing Complexity with Enterprise Architecture** *Exploiting the Knowledge Economy* **Enterprise Architecture at Work The Integrated Architecture Framework Explained Collaborative Enterprise Architecture** *Complex Systems Design & Management* Software Architecture for Busy Developers **The Open Group Architecture Framework TOGAF Version 9 Enterprise Architecture for Global Companies in a Digital IT Era** Tag des Systems Engineering *Dynamisches IT-Management* **Proceedings of Seventh International Congress on Information and Communication Technology** MKWI 2012 Unternehmensarchitekturen und Systemintegration **Enterprise Architecture Frameworks Kompendium The Enterprise Architecure Sourcebook Volume 1 - Process, Products and Frameworks** Research Anthology on Architectures, Frameworks, and Integration Strategies for Distributed and Cloud Computing **Learning ASP.NET Core 2.0 Large-Scale Complex IT Systems. Development, Operation and Management** *Model-Driven Engineering Languages and Systems* **Ein Modellierungsansatz zur Gestaltung wissensintensiver Wertschöpfungsnetzwerke in der Textilwirtschaft Architecture and Principles of Systems Engineering** Modelling and Simulation for Autonomous Systems BPMN 2.0 Handbook Second Edition **TOGAF® 9 Certified Study Guide – 4thEdition Advances in Government Enterprise Architecture Managing and Using Information Systems** A Practical Guide to SysML *Architecting the Digital Transformation* The 8th International Conference on Advanced Machine Learning and Technologies and Applications (AMLTA2022) **Electronic Government** Enterprise Architecture

Managing and Using Information Systems Nov 28 2019 Managing & Using Information Systems: A Strategic Approach provides a solid knowledgebase of basic concepts to help readers become informed, competent participants in Information Systems (IS) decisions. Written for MBA students and general business managers alike, the text explains the fundamental principles and practices required to use and manage information, and illustrates how information systems can create, or obstruct, opportunities within various organizations. This revised and updated seventh edition discusses the business and design processes relevant to IS, and presents a basic framework to connect business strategy, IS strategy, and organizational strategy. Readers are guided through each essential aspect of information Systems, including information architecture and infrastructure, IT security, the business of Information Technology, IS sourcing, project management, business analytics, and relevant IS governance and ethical issues. Detailed chapters contain mini cases, full-length case studies, discussion topics, review questions, supplemental reading links, and a set of managerial concerns related to the topic.

Dynamisches IT-Management Apr 13 2021

Architecture and Principles of Systems Engineering May 03 2020 The rapid evolution of technical capabilities in the systems engineering (SE) community requires constant clarification of how to answer the following questions: What is Systems Architecture? How does it relate to Systems Engineering? What is the role of a Systems Architect? How should Systems Architecture be practiced? A perpetual reassessment of concepts and practices is taking place across various systems disciplines at every level in the SE community. Architecture and Principles of Systems Engineering addresses these integral issues and prepares you for changes that will be occurring for years to come. With their simplified discussion of SE, the authors avoid an overly broad analysis of concepts and terminology. Applying their substantial experience in the academic, government, and commercial R&D sectors, this book is organized into detailed sections on: Foundations of Architecture and Systems Engineering Modeling Languages, Frameworks, and Graphical Tools Using Architecture Models in Systems Analysis and Design Aerospace and Defense Systems Engineering Describing ways to improve methods of reasoning and thinking about architecture and systems, the text integrates concepts, standards, and terminologies

that embody emerging model-based approaches but remain rooted in the long-standing practices of engineering, science, and mathematics. With an emphasis on maintaining conceptual integrity in system design, this text describes succinct practical approaches that can be applied to the vast array of issues that readers must resolve on a regular basis. An exploration of the important questions above, this book presents the authors' invaluable experience and insights regarding the path to the future, based on what they have seen work through the power of model-based approaches to architecture and systems engineering.

TOGAF® Business Architecture Level 1 Study Guide Jul 29 2022 This title is the Study Guide for the TOGAF® Business Architecture Part 1 Examination. It gives an overview of every learning objective for the TOGAF Business Architecture Syllabus and in-depth coverage on preparing and taking the TOGAF Business Architecture Part 1 Examination. It is specifically designed to help individuals prepare for certification. This Study Guide is excellent material for: • Individuals who require knowledge and understanding of TOGAF Business Architecture techniques; • Professionals who are working in roles associated with an architecture project such as those responsible for planning, execution, development, delivery, and operation; • Architects who are looking to achieve the TOGAF Business Architecture Level 1 credential; • Architects who want to specialize in development of a Business Architecture based on the TOGAF Standard, Version 9.2; It covers the following topics: • Business Modeling • Business Capabilities • Value Streams • Information Mapping • TOGAF Business Scenarios and how to apply them in development of a Business Architecture based on the TOGAF Standard, Version 9.2. A prior knowledge of Enterprise Architecture is advantageous but not required. While reading this Study Guide, the reader should also refer to the TOGAF Standard, Version 9.2 documentation (manual), available as hard copy and eBook, from www.vanharen.net and online booksellers, and also available online at www.opengroup.org.

Cloud Computing for Enterprise Architectures May 27 2022 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.

The Integrated Architecture Framework Explained Nov 20 2021 When I joined Capgemini back in 1996 I was amazed by investment that had been made in developing Enterprise Architecture, and at the root of this, the IAF methodology. Back in the mid 1990s the importance of architecture was dimly recognised but certainly it was not widely understood as a crucial element of successful enterprise wide IT implementation. A decade later with the huge growth in the role, the sophistication, and importance of Information Technology it has become recognized, and established for the value it brings. With this recognition has come various forms of 'standardization' ranging from the work of the Open Group and its moves to establish TOGAF as a common framework, together with ITAC to certify architects, through to a wide variety of product vendor architects, even to some industry sectors establishing their own architectures. Has this diminished, or even may be removed the need for IAF? Well it might have done if the world had stood still, but it hasn't. Simul- neously the range and complexity of technology has increased, the functionality has been extended to embrace new front office capabilities and most of all the externalization and globalization of business has added a whole new extra dimension. Standardization might have improved connections and interfaces, and in so doing produced 'systems' of apparently limitless extendibility, but it has done little to improve the necessary 'understanding'.

Large-Scale Complex IT Systems. Development, Operation and Management Aug 06 2020 This book presents the thoroughly refereed and revised post-workshop proceedings of the 17th Monterey Workshop, held in Oxford, UK, in March 2012. The workshop explored the challenges associated with the Development, Operation and Management of Large-Scale complex IT Systems. The 21 revised full papers presented were significantly extended and improved by the insights gained from the productive and lively discussions at the workshop, and the feedback from the post-workshop peer reviews.

The TOGAF ® Standard, Version 9.2 - A Pocket Guide Mar 25 2022 This is the official Pocket Guide for the TOGAF® Standard, Version 9.2, from The Open Group. It is published in hard copy and electronic formats by Van Haren Publishing. The TOGAF Standard, a standard of The Open Group, is a proven Enterprise Architecture methodology and framework used by the world's leading organizations to improve business efficiency. It is the most prominent and reliable Enterprise Architecture standard, ensuring consistent standards, methods, and communication among Enterprise Architecture professionals. Those professionals who are fluent in the TOGAF

approach enjoy greater industry credibility, job effectiveness, and career opportunities. The TOGAF approach helps practitioners avoid being locked into proprietary methods, utilize resources more efficiently and effectively, and realize a greater return on investment.

 A Practical Guide to SysML Oct 27 2019 This book is the bestselling, authoritative guide to SysML for systems and software engineers, providing a comprehensive and practical resource for modeling systems with SysML. Fully updated to cover newly released version 1.3, it includes a full description of the modeling language along with a quick reference guide, and shows how an organization or project can transition to model-based systems engineering using SysML, with considerations for processes, methods, tools, and training. Numerous examples help readers understand how SysML can be used in practice, while reference material facilitates studying for the OMG Systems Modeling Professional (OCSMP) Certification Program, designed to test candidates' knowledge of SysML and their ability to use models to represent real-world systems. Authoritative and comprehensive guide to understanding and implementing SysML A quick reference guide, including language descriptions and practical examples Application of model-based methodologies to solve complex system problems Guidance on transitioning to model-based systems engineering using SysML Preparation guide for OMG Certified Systems Modeling Professional (OCSMP)

 Software Architecture for Busy Developers Aug 18 2021 A quick start guide to learning essential software architecture tools, frameworks, design patterns, and best practices Key FeaturesApply critical thinking to your software development and architecture practices and bring structure to your approach using well-known IT standardsUnderstand the impact of cloud-native approaches on software architectureIntegrate the latest technology trends into your architectural designsBook Description Are you a seasoned developer who likes to add value to a project beyond just writing code? Have you realized that good development practices are not enough to make a project successful, and you now want to embrace the bigger picture in the IT landscape? If so, you're ready to become a software architect; someone who can deal with any IT stakeholder as well as add value to the numerous dimensions of software development. The sheer volume of content on software architecture can be overwhelming, however. Software Architecture for Busy Developers is here to help. Written by Stephane Eyskens, author of The Azure Cloud Native Mapbook, this book guides you through your software architecture journey in a pragmatic way using real-world scenarios. By drawing on over 20 years of consulting experience, Stephane will help you understand the role of a software architect, without the fluff or unnecessarily complex theory. You'll begin by understanding what non-functional requirements mean and how they concretely impact target architecture. The book then covers different frameworks used across the entire enterprise landscape with the help of use cases and examples. Finally, you'll discover ways in which the cloud is becoming a game changer in the world of software architecture. By the end of this book, you'll have gained a holistic understanding of the architectural landscape, as well as more specific software architecture skills. You'll also be ready to pursue your software architecture journey on your own - and in just one weekend! What you will learnUnderstand the roles and responsibilities of a software architectExplore enterprise architecture tools and frameworks such as The Open Group Architecture Framework (TOGAF) and ArchiMateGet to grips with key design patterns used in software developmentExplore the widely adopted Architecture Tradeoff Analysis Method (ATAM)Discover the benefits and drawbacks of monoliths, service-oriented architecture (SOA), and microservicesStay on top of trending architectures such as API-driven, serverless, and cloud nativeWho this book is for This book is for developers who want to move up the organizational ladder and become software architects by understanding the broader application landscape and discovering how large enterprises deal with software architecture practices. Prior knowledge of software development is required to get the most out of this book.

 Unternehmensarchitekturen und Systemintegration Jan 11 2021

 Ein Framework zur Architekturbeschreibung von sozio-technischen maritimen Systemen Apr 25 2022 Eine nachhaltige und sichere Optimierung des maritimen Transportprozesses soll gemäß der International Maritime Organization (IMO) u.a. durch die Kopplung see- und landseitiger maritimer Systeme erfolgen. Ein erforderlicher harmonisierter Informationsaustausch zwischen existierenden und künftigen Systemen bzw. Systemkomponenten wird unter dem Begriff e-Navigation international vorangetrieben. Dabei soll nicht nur eine technische Interoperabilität zwischen den Systemen gewährleistet, sondern auch menschliche Nutzer und existierende Regularien berücksichtigt werden. Für die Unterstützung dieser Harmonisierung sowie für die Integration von Systemen in eine (bestehende) Systemumgebung muss eine umfassende Sicht auf die jeweiligen Systeme innerhalb des maritimen Kontexts aus verschiedenen technischen und nicht-technischen Perspektiven ermöglicht werden. Der in dieser Arbeit betrachtete Ansatz einer Entwicklung eines maritimen Architekturframeworks ermöglicht den Anwendern auf formale Art und Weise, die Eigenschaften von Systemen zu erfassen. Auf dieser Basis können Architekturmodelle erstellt werden, die eine ganzheitliche Betrachtung des

entsprechenden Systems innerhalb der maritimen Domäne und ihrer Merkmale ermöglicht. Im Zuge dessen unterstützt das entwickelte Prinzip verschiedene Betrachtungsmöglichkeiten zur Identifikation einer internen Konsistenz oder von Interoperabilitätsmerkmalen in und zwischen den betrachteten Systemen. Die vorgestellte Arbeit vereint Merkmale aus dem Systems Engineering, dem System of Systems Engineering sowie insbesondere aus dem Enterprise Architecture Management in einem Ansatz. Dieser beinhaltet die Entwicklung einer geeigneten Methodik zur Erfassung und Beschreibung einer Systemarchitektur sowie die Entwicklung einer Struktur zur Erstellung von Architekturmodellen unter Berücksichtigung maritimer Charakteristiken. Hinzu kommen weitere Aspekte, die im Rahmen der Arbeit Berücksichtigung finden. Dazu zählen sowohl ein Anforderungsmanagement als auch die Nutzung des Ansatzes für potentielle Analysen.

Designing Enterprise Architecture Frameworks Sep 30 2022 This book gathers together a critical body of knowledge on what enterprise architecture (EA) is and how it can be used to better organize the functions of systems across an enterprise for an effective business-IT alignment. The chapters provide a solid foundation for a cross-disciplinary professional practice.

Enterprise Architecture at Work Dec 22 2021 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.

Strategiegetriebene Geschäftsarchitekturen Jun 27 2022 Immer kürzere Innovations-, Produkt- und Technologielebenszyklen stellen eine Herausforderung dar und erfordern das Überdenken und das Anpassen der bestehenden Geschäftsmodelle. Die strategische Unternehmensführung spielt in dieser Zeit des schnellen und stetigen Wandels eine entscheidende Rolle, um auf dem Markt erfolgreich zu sein und es zu bleiben. Die Hauptaufgaben des Managements sind dabei neben der Pflege der Unternehmenskultur vor allem die Entwicklung einer unternehmensweiten Vision, die Planung und Gestaltung darauf aufbauender Strategien sowie Ableitung von Zielen und Maßnahmen. Die Geschäftsarchitektur (engl. Business Architecture) beschreibt die grundlegenden Strukturen und Anforderungen des Geschäfts und bestimmt somit die Anforderungen für die IT-Landschaft. Die meisten existierenden Ansätze zur Gestaltung von Unternehmensarchitekturen befassen sich vorrangig mit der technischen Seite. Das vorliegende Buch beleuchtet explizit die Business-Seite und bietet ein Standardverfahren zur Erstellung einer strategiebasierten Geschäftsarchitektur an, um diese Lücke zwischen Business und IT zu schließen.

Learning ASP.NET Core 2.0 Sep 06 2020 Learn how web applications can be built efficiently using ASP.NET Core 2.0 and related frameworks About This Book Get to grips with the new features and APIs introduced in ASP.NET Core 2.0 Leverage the MVC framework and Entity Framework Core 2 to build efficient applications Learn to deploy your web applications in new environments such as the cloud and Docker Who This Book Is For This book is for developers who would like to build modern web applications with ASP.NET Core 2.0. No prior knowledge of ASP.NET or .NET Core is required. However, basic programming knowledge is assumed. Additionally, previous Visual Studio experience will be helpful but is not required, since detailed instructions will guide through the samples of the book.This book can also help people, who work in infrastructure engineering and operations, to monitor and diagnose problems during the runtime of ASP.NET Core 2.0 web applications. What You Will Learn Set up your development environment using Visual Studio 2017 and Visual Studio Code Create a fully automated continuous delivery pipeline using Visual Studio Team Services Get to know the basic and advanced concepts of ASP.NET Core 2.0 with detailed examples Build an MVC web application and use Entity Framework Core 2 to access data Add Web APIs to your web applications using RPC, REST, and HATEOAS Authenticate and authorize users with built-in ASP.NET Core 2.0 features Use Azure, Amazon Web Services, and Docker to deploy and monitor your applications In Detail The ability to develop web applications that are highly efficient but also easy to maintain has become imperative to many businesses. ASP.NET Core 2.0

is an open source framework from Microsoft, which makes it easy to build cross-platform web applications that are modern and dynamic. This book will take you through all of the essential concepts in ASP.NET Core 2.0, so you can learn how to build powerful web applications. The book starts with a brief introduction to the ASP.NET Core framework and the improvements made in the latest release, ASP.NET Core 2.0. You will then build, test, and debug your first web application very quickly. Once you understand the basic structure of ASP.NET Core 2.0 web applications, you'll dive deeper into more complex concepts and scenarios. Moving on, we'll explain how to take advantage of widely used frameworks such as Model View Controller and Entity Framework Core 2 and you'll learn how to secure your applications. Finally, we'll s...

Complex Systems Design & Management Sep 18 2021 This book contains all refereed papers that were accepted to the second edition of the « Complex Systems Design & Management » (CSDM 2011) international conference that took place in Paris (France) from December 7 to December 9, 2011. (Website: http://www.csdm2011.csdm.fr/). These proceedings cover the most recent trends in the emerging field of complex systems sciences & practices from an industrial and academic perspective, including the main industrial domains (transport, defense & security, electronics, energy & environment, e-services), scientific & technical topics (systems fundamentals, systems architecture& engineering, systems metrics & quality, systemic tools) and system types (transportation systems, embedded systems, software & information systems, systems of systems, artificial ecosystems). The CSDM 2011 conference is organized under the guidance of the CESAMES non-profit organization (http://www.cesames.net/).

Proceedings of Seventh International Congress on Information and Communication Technology Mar 13 2021 This book gathers selected high-quality research papers presented at the Seventh International Congress on Information and Communication Technology, held at Brunel University, London, on February 21–24, 2022. It discusses emerging topics pertaining to information and communication technology (ICT) for managerial applications, e-governance, e-agriculture, e-education and computing technologies, the Internet of Things (IoT) and e-mining. Written by respected experts and researchers working on ICT, the book offers a valuable asset for young researchers involved in advanced studies. The work is presented in four volumes.

Exploiting the Knowledge Economy Jan 23 2022 "Adaptation of applied Information and Communication Technologies (ICT) research results is one of the greatest challenges faced today in building the global Knowledge Economy. While research challenges can be quite similar across the world thus facilitating cross-border cooperation between researchers, government and industry, how actual research results can be exploited or implemented can vary considerably depending on the social, cultural and infrastructural context of the target country, province or region. This offers opportunities as well as challenges in terms of how applied ICT can be used to both support economic development and inform future research challenges. When cross-border collaboration is effective, there can be a valuable exchange of knowledge that can not only lead to successful adaptation of research results or lessons learnt from successful implementations in other countries, but can also provide insight into different problem solving techniques and new ways of thinking that can enrich the ICT research agenda. It is only through such mutually beneficial shared insight that the Digital Divide can be bridged. This set of two books brings together a comprehensive collection of over 220 contributions on commercial, government or societal exploitation of applied ICT, representing cutting edge research, good practice and practical eAdoption from Africa, the Americas, Asia & Europe."

Modelling and Simulation for Autonomous Systems Apr 01 2020 This book constitutes the thoroughly refereed post-conference proceedings of the 7th International Conference on Modelling and Simulation for Autonomous Systems, MESAS 2020, held in Prague, Czech Republic, in October 2020.* The 19 full papers included in the volume were carefully reviewed and selected from 26 submissions. They are organized in the following topical sections: future challenges of advanced M&S technology; M&S of intelligent systems – R&D and application; and AxS/AI in context of future warfare and security environment. *The conference was held virtually.

Research Anthology on Architectures, Frameworks, and Integration Strategies for Distributed and Cloud Computing Oct 08 2020 Distributed systems intertwine with our everyday lives. The benefits and current shortcomings of the underpinning technologies are experienced by a wide range of people and their smart devices. With the rise of large-scale IoT and similar distributed systems, cloud bursting technologies, and partial outsourcing solutions, private entities are encouraged to increase their efficiency and offer unparalleled availability and reliability to their users. The Research Anthology on Architectures, Frameworks, and Integration Strategies for Distributed and Cloud Computing is a vital reference source that provides valuable insight into current and emergent research occurring within the field of distributed computing. It also presents architectures and service frameworks to achieve highly integrated distributed systems and solutions to integration and efficient management challenges faced by current and future distributed systems. Highlighting a range of topics such as

data sharing, wireless sensor networks, and scalability, this multi-volume book is ideally designed for system administrators, integrators, designers, developers, researchers, academicians, and students.

Model-Driven Engineering Languages and Systems Jul 05 2020 This book constitutes the refereed proceedings of the 16th International Conference on Model Driven Engineering Languages and Systems, MODELS 2013, held in Miami, FL, USA, in September/October 2013. The 47 full papers presented in this volume were carefully reviewed and selected from a total of 180 submissions. They are organized in topical sections named: tool support; dependability; comprehensibility; testing; evolution; verification; product lines; semantics; domain-specific modeling languages; models@RT; design and architecture; model transformation; model analysis; and system synthesis.

Enterprise Architecture Jun 23 2019

Collaborative Enterprise Architecture Oct 20 2021 Why collaborative enterprise architecture? -- What is enterprise architecture -- What enterprise architects do: core activities of EA -- EA frameworks -- EA maturity models -- Foundations of collaborative EA -- Towards pragmatism: lean and agile EA -- Inviting to participation: eam 2.0 -- The next steps: taking collaborative EA forward.

A Systemic Perspective to Managing Complexity with Enterprise Architecture Feb 21 2022 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.

Ein Modellierungsansatz zur Gestaltung wissensintensiver Wertschöpfungsnetzwerke in der Textilwirtschaft Jun 03 2020 Der digitale Wandel und die dadurch mögliche digital vernetzte Welt bietet den kleinen und mittleren Unternehmen (KMU) der Textilwirtschaft eine ganze Reihe neuer Chancen, stellt sie aber unter anderem aufgrund ihrer Einbindung in wissensintensive Wertschöpfungsnetzwerke vor einige Herausforderungen. Die vorliegende Arbeit liefert einen Modellierungsansatz für KMU der Textilwirtschaft und ihrer Wertschöpfungsnetzwerke, um diese bei den organisatorischen und technologischen Herausforderungen des digitalen Wandels zu unterstützen.

agendaCPS Aug 30 2022 Der rasche Fortschritt der Informationstechnik ermöglicht, in Kombination mit der Mikrosystemtechnik, immer leistungsfähigere softwareintensive eingebettete Systeme und integrierte Anwendungen. Zunehmend werden diese untereinander, aber auch mit Daten und Diensten im Internet vernetzt. So entstehen intelligente Lösungen, die mithilfe von Sensoren und Aktoren Prozesse der physikalischen Welt erfassen, sie mit der virtuellen Softwarewelt verbinden und in Interaktion mit den Menschen überwachen und steuern. Auf diese Weise entstehen sogenannte Cyber-Physical Systems, Die agendaCPS gibt einen umfassenden Überblick über das Phänomen der Cyber-Physical Systems und die damit verbundenen vielfältigen Herausforderungen. Sie illustriert, welchen Stellenwert das Thema für Wirtschaft und Gesellschaft hat: Revolutionäre Anwendungen von Cyber-Physical Systems adressieren technische und gesellschaftliche Trends und Bedürfnisse; gleichzeitig durchdringen und verknüpfen sie immer mehr Lebensbereiche. Zu den Anwendungen zählen erweiterte Mobilität, intelligente Städte, integrierte telemedizinische Versorgung, Sicherheit sowie vernetzte Produktion und Energiewandel. Die agendaCPS zeigt auf, welche Technologien die Grundlage von Cyber-Physical Systems bilden und welches Innovationspotenzial ihnen innewohnt. Zudem macht sie deutlich, welche Forschungs- und Handlungsfelder besonders wichtig sind. Anhand von Zukunftsszenarien werden wesentliche Anwendungsdomänen dargestellt, allen voran integrierte Mobilität, Telemedizin und intelligente Energieversorgung. In diesen Zusammenhängen werden Chancen, aber auch Risiken für Deutschland durch Cyber-Physical Systems deutlich.

TOGAF® 9 Certified Study Guide – 4thEdition Jan 29 2020 The TOGAF 9 certification program is a knowledge-based certification program. It has two levels, leading to certification for TOGAF 9 Foundation and TOGAF 9 Certified, respectively. The purpose of certification to TOGAF 9 Certified is to provide validation that, in addition to the knowledge and comprehension of TOGAF 9 Foundation level, the Candidate is able to analyze and apply this knowledge. The learning objectives at this level therefore focus on application and analysis in addition to knowledge and comprehension. This Study Guide supports students in preparation for the TOGAF 9 Part 2 Examination, leading to TOGAF 9 Certified. This third edition contains minor updates to remove references to the TOGAF 8-9 Advanced Bridge Examination1 and also adds four bonus practice examination questions to Appendix B. It gives an overview of every learning objective for the TOGAF 9 Certified Syllabus beyond the

Foundation level.

The 8th International Conference on Advanced Machine Learning and Technologies and Applications (AMLTA2022) Aug 25 2019 This book constitutes the refereed proceedings of the 8th International Conference on Advanced Machine Learning Technologies and Applications, AMLTA 2022, held in Cairo, Egypt, during May 5-7, 2022. The 8th edition of AMLTA will be organized by the Scientific Research Group in Egypt (SRGE), Egypt, collaborating with Port Said University, Egypt, and VSB-Technical University of Ostrava, Czech Republic. AMLTA series aims to become the premier international conference for an in-depth discussion on the most up-to-date and innovative ideas, research projects, and practices in the field of machine learning technologies and their applications. The book covers current research on advanced machine learning technology, including deep learning technology, sentiment analysis, cyber-physical system, IoT, and smart cities informatics and AI against COVID-19, data mining, power and control systems, business intelligence, social media, digital transformation, and smart systems.

Architecting the Digital Transformation Sep 26 2019 This research-oriented book presents key contributions on architecting the digital transformation. It includes the following main sections covering 20 chapters: · Digital Transformation · Digital Business · Digital Architecture · Decision Support · Digital Applications Focusing on digital architectures for smart digital products and services, it is a valuable resource for researchers, doctoral students, postgraduates, graduates, undergraduates, academics and practitioners interested in digital transformation.

Complex Enterprise Architecture Nov 01 2022 Implement successful and cost-effective enterprise architecture projects. This book provides a new approach to developing enterprise architecture based on the idea of emergent behaviors—where instead of micromanaging system implementation, the enterprise architecture effort establishes clear goals and leaves the details to the implementation teams. System development efforts are measured based on their contribution to achieving business goals instead of implementing specific (possibly outdated) requirements. Most enterprise architecture initiatives employ one of the existing system architecture frameworks such as Zachman or The Open Group Architecture Framework, but these are not well-suited for enterprise architecture in a modern, agile organization. The new approach presented in this book is based on the author's experience with large enterprise architecture efforts. The approach leverages research into complex adaptive systems and emergent behaviors, where a few simple rules result in complex and efficient enterprise behaviors. Simplifying the task of establishing and maintaining the enterprise architecture cuts the costs of building and maintaining the architecture and frees up those resources for more productive pursuits. System implementers are given the freedom to rapidly adapt to changing user needs without the blessing of the enterprise modeling priesthood, and the architecture is transformed from a static pile of obscure models and documents into an operational framework that can be actively used to manage an enterprise's resources to better achieve business goals. The enterprise architect is free to stop focusing on building and maintaining models and start focusing on achieving business goals. What You'll Learn Refocus enterprise architecture on business needs by eliminating most of the enterprise-level models Delegate tasks to the development teams who do system implementation Document business goals, establish strategies for achieving those goals, and measure progress toward those goals Measure the results and gauge whether the enterprise architecture is achieving its goals Utilize appropriate modeling techniques that can be effectively used in an enterprise architecture Who This Book Is For Architecture practitioners and architecture managers: Practitioners are experienced architects who have used existing frameworks such as Zachman, and have experience with formal architecture modeling and/or model-based system engineering; managers are responsible for managing an enterprise architecture project and either have experience with enterprise architecture projects that were ineffective or are looking for a different approach that will be more cost-effective and allow for more organizational agility. Government program managers looking for a different approach to make enterprise architecture more relevant and easier to implement will also find this book of value.

Advances in Government Enterprise Architecture Dec 30 2019 Presents current developments, issues, and trends in enterprise architecture (EA). Provides insights into the impact of effective EA on IT governance, IT portfolio management, and IT outsourcing.

Enterprise Architecture for Global Companies in a Digital IT Era Jun 15 2021 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)

Electronic Government Jul 25 2019 This book constitutes the refereed proceedings of the 10th International Conference, EGOV 2011, held in Delft, The Netherlands, in August/September 2011. The 38 revised full papers presented were carefully reviewed and selected from 84 submissions. The papers are organized in topical sections on foundations, acceptance and diffusion, governance, openess and institutions, architecture, security and interoperability, transformation, values and change.

Tag des Systems Engineering May 15 2021 Der "Tag des Systems Engineering 2019" ist ein branchenübergreifender Treffpunkt für den Austausch von Experten und Interessierten im weiten Themenfeld Systems Engineering. Die Teilnehmer der Veranstaltung kommen aus dem deutschsprachigen Raum und gehören vielfältigen Fachdisziplinen an: Software Entwicklung, Projektleiter, Systems Engineers, Architekten, Integratoren und auch Personen, die mit diesen Fachbereichen in engem Austausch sind. Informationsmöglichkeiten zu praxisrelevanten Themen erlauben einen Blick über den Tellerrand. Teilnehmer aus Forschung und Entwicklung stellen neueste Erkenntnisse und zukünftige Ziele des Systems Engineerings dar. Zusätzlich bietet der Rahmen der Veranstaltung die Möglichkeit, einzelne Themen in Diskussionen und Tutorials zu vertiefen.

Enterprise Architecture Frameworks Kompendium Dec 10 2020 In dem Band werden 50 Enterprise Architecture Frameworks (EAF) ausführlich behandelt und 45 weitere hinsichtlich ihrer Intention kurz und prägnant dargestellt. Die detaillierten Beschreibungen erlauben durch ein einheitliches Raster den Vergleich unterschiedlicher EAF. Sie enthalten Informationen zum Entwickler, zu Versionen, zur Marktrelevanz, zu Abhängigkeiten, Verfügbarkeit, unterstützenden Tools sowie Anschaffungskosten. Die Unterstützungsvielfalt, die Frameworks bieten, demonstriert der Autor anhand eines Anwendungsszenarios.

The Open Group Architecture Framework TOGAF Version 9 Jul 17 2021 The Open Group Architecture Framework (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 (www.opengroup.org/architecture).As a comprehensive, open method for enterprise architecture, TOGAF Version 9 complements, and can be used in conjunction with, other frameworks that are more focused on specific aspects of architecture or for vertical sectors such as Government, Defense, and Finance.TOGAF 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 main 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 part discusses the organization, processes, skills, roles, and responsibilities required to establish and operate an architecture function within an enterprise.

BPMN 2.0 Handbook Second Edition Mar 01 2020 Examines what's new and updated in BPMN 2.0 and look at interchange, best practice, analytics, conformance, optimization, choreography from a technical perspective. Also addresses the business imperative for widespred adoption of the standard by examining best practice guidelines, BPMN busines strategy and the human interface including real-life case studies. Other chapters tackle the

practical aspects of making BPMN model executable and the basic time-line analysis of a BPMN model. MKWI 2012 Feb 09 2021

The Enterprise Architecure Sourcebook Volume 1 - Process, Products and Frameworks Nov 08 2020 An update to the 1st Edition, the 2nd Edition of the Enterprise Architecture Sourcebook Volume 1 has been completely revised and updated. It addresses twelve of the most popular commercial, government, and defense-related architecture frameworks and the two standard architecture development approaches: product-centric and data-centric. It provides a comprehensive overview of the current state of architecture practice.

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