

Enterprise Architecture For Digital Business Oracle

Provides modern enterprises with the tools to create a robust digital platform utilizing proven best practices, practical models, and time-tested techniques Contemporary business organizations can either embrace the digital revolution or be left behind. Enterprise Content and Search Management for Building Digital Platforms provides modern enterprises with the necessary tools to create a robust digital platform utilizing proven best practices, practical models, and time-tested techniques to compete in today's digital world. Features include: Comprehensive discussions on content strategy, content key performance indicators (KPIs), mobile-first strategy, content assessment models, various practical techniques and methodologies successfully used in real-world digital programs, relevant case studies, and more. Initial chapters cover core concepts of a content management system (CMS), including content strategy, CMS architecture, templates, work flow, reference architectures, information architecture, taxonomy, and content metadata. Advanced CMS topics are then covered with chapters on integration, content standards, digital asset management (DAM), document management, content migration, evaluation, validation, maintenance, analytics, search engine optimization (SEO), security, infrastructure, and performance. The basics of enterprise search technologies are explored next, including enterprise search features, advanced search methods, and other enterprise search concepts. An accompanying book support website provides additional material such as various content templates, checklists, and content case studies; along with an illuminating end-to-end digital program case study. Enterprise Content and Search Management for Building Digital Platforms: Offers a comprehensive guide to understanding and learning new methodologies, techniques, and models for the creation of an end-to-end digital system Addresses a wide variety of proven best practices, reference architecture, and deployed techniques in content management and enterprise search space which can be readily used for digital programs Covers the latest digital trends such as mobile-first strategy, responsive design, adaptive content design, micro services architecture, and semantic search; and also utilizes sample reference architecture for implementing solutions Features numerous case studies to enhance comprehension, including a complete end-to-end digital program case study Provides readily usable content management checklists and reusable templates for defining content strategy, CMS evaluation, search evaluation, and DAM evaluation that can be found on the book support website Comprehensive and cutting-edge, this book is an invaluable reference resource for creating an optimal enterprise digital ecosystem to meet the challenges of today's hyper-connected world.

This book discusses the opportunities and conditions that digital technology provides to extend, innovate and differentiate the services offered by consulting companies. It introduces suitable artefacts like web-based consulting platforms, consulting applications, semantic technologies and tools for data mining and collaboration. Furthermore it examines concepts to evaluate the virtualization of consulting processes and showcases how solutions can be developed to blend traditional and digital consulting models. Presenting state-of-the-art research and providing a comprehensive overview of the methods and techniques needed for digital transformation in the consulting industry, the book serves as both a guide and a roadmap for innovative consulting companies.

DIGITAL ECOSYSTEMS ARE DRIVING THE FUTURE OF BUSINESS To the uninitiated, digital ecosystems are like swirls of mist, more nebulous apparition than tangible tool. But many of today's top companies rely on this invisible force, and the future will follow. In Rewire!, technology visionary Mike J. Walker unravels the digital ecosystem puzzle with consumable content and a road map to build next generation business models. Business executives, strategists, digital officers, and innovation leaders can turn to Rewire! to learn about: - diving deeper into the digital ecosystem evolution, - inspiring your leadership teams, - hosting

ideation workshops, and - leveraging the power of digital ecosystems to maximize business value. Now is the time to shape your company's trajectory based on real-world guidance from an internationally respected and tirelessly driven innovation expert.

This is the third part of a collection of blogs on Enterprise Architecture (EA) I posted since the beginning of 2007. Enterprise Architecture (EA) has made little progress since then though. Yet, new paradigms emerge as we speak to challenge the status quo. Business Capabilities, Design Thinking, Business Design, Design Sprint, the Digital Twin of the Organisation, Bimodal and Two Speed IT, DevOps, Agile... are all adding their bits to the enterprise picture. Yet, they have not solved the key EA issue, the modelling of the Enterprise. The book, after recapping the EA state, methods and roadblocks, management and governance, the architects' mission and skills... elaborates on the Enterprise Modelling. Since the ultimate goal of EA is to Design the Enterprise, the book proposes an enterprise design method with Off-the Shelf Business Capabilities. To cover the entire enterprise, capabilities are first delineated on a generic business architecture, GODS, essentially an extension to the Value Chain. Each capability could be built today from a number of applications but in time suppliers should join their offers to provide the seamless integration of the capabilities in the architecture. The Enterprise Architect or the Entrepreneur, the designer of a Startup, just have to customise the capabilities for their enterprise and determine the applications which are realising or are going to realise the capabilities.

This book examines the massive changes currently taking place in the business world and commonly known under the label "digitalization." In addition, it describes the significant impacts of technological innovations on processes, products, services and business models. The digital transformation resulting from these developments leads to disruption for many enterprises and industries. While for many years, IT departments mainly concentrated on fulfilling the requirements of business departments effectively and efficiently by means of high-quality IT services and operations, today's IT departments are increasingly expected to actively co-design and co-create the enterprise. This book describes how information technology enables innovation for businesses, and how IT departments can proactively and in a timely manner collaborate with the business departments of their corporation to leverage these innovations. It also delineates the implications of digitalization for the structures, processes and people in today's IT departments. IT leaders and managers who are responsible for corporate IT, as well as practice-oriented researchers, will find valuable inspirations and guidance in this book, the central mission of which is to encourage and enable a more proactive role for IT in the digital transformation processes. "This book demonstrates the impact of digital transformation on IT organizations and their management. It also presents potential risks for technology availability, security and data protection. The authors develop a vision of what IT management should look like in ten years if it is to continue playing an important role in the company. The book seeks to motivate IT executives and managers with IT responsibility to actively adapt their thinking and their IT organizations before they are forced to react to external pressure. Definitely worth reading!" Sven Kreimendahl, Director Business Technology Services, Campana & Schott

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.

We are in a frenetic and a convoluted digital age. Every organisation strives to transform its business to stay competitive in this exponentially growing digital world. Digital transformation became pervasive and ubiquitous in all business ventures. This new norm of constant transformation requires architecting our business and underlying technology stacks rapidly. Establishing agile business architecture frameworks are fundamental requirements to achieve successful digital transformation outcomes. In this book, I attempt to share my knowledge and experience using a rigorous yet agile architectural method. My aim is to add accelerated value to the broader business architecture and digital transformation communities by focusing on the practical aspect with minimal emphasis on the theoretical aspect. The content in this book is based on my architectural thought leadership experience gained in multiple large business and enterprise architecture initiatives, focusing on business capabilities, digital transformation initiatives, and enterprise modernisation engagements, reflecting hard lessons learned in these applied settings. In this book I attempt to redefine the role of business architects as primary leaders for digital transformation programs. The content reflects my experience and observations from the field. As a caveat, this book is not based on theories in the traditional business architecture textbooks which may conflict with my experience. My beta readers found this as a unique guide reflecting reality from the field. Hope it adds new insights for your role in the business digital transformation initiatives.

This book sheds light on cross-industry and industry-specific trends in today's digital economy. Prepared by a group of international researchers, experts and practitioners under the auspices of SAP's Digital Thought Leadership & Enablement team within SAP's Business Transformation Services (BTS) unit, the book furthermore presents relevant use cases in digital transformation and innovation. The book argues that breakthrough technologies have matured and hit scale together, enabling five defining trends: hyper-connectivity, supercomputing, cloud computing, a smarter world, and cyber security. It presents in detail how companies are now reimagining their products and services, business models and processes, showcasing how every business today is a digital business. Digitalization, defined as the process of moving to a digital business, is no longer a choice but an imperative for all businesses across all industries and regions. Taking a step toward becoming a digital enterprise is demanding and challenging. The dimensions of customer centricity, leadership and strategy, business models, including offerings (products and services), processes, structure and governance, people and skills, culture, and technology foundation can serve as orientation for digitalization. The articles in this book touch on all dimensions of this digital innovation and transformation framework and offer possible answers to some of the pressing questions that arise when practitioners seek to digitalize their business.

This book presents a comprehensive and novel adaptive enterprise service systems approach to adapting, defining, operating, managing and supporting (ADOMS) the adaptive cloud enterprise architecture. The adaptive cloud enterprise architecture provides a platform for creating the service-centric agile enterprise. This book is intended for enterprise strategists, enterprise architects, domain architects, solution architects, researchers, and anyone who has an interest in the enterprise architecture and cloud computing disciplines. Contents: Introduction Cloud-Enabled Enterprise Adaptation The Adaptive Enterprise Service System Metamodel The Adaptive Enterprise

Service System Lifecycle Management Adapting Cloud Enterprise Architecture Capability Defining Cloud Enterprise Architecture Capability Operating Cloud Enterprise Architecture Capability Managing Cloud Enterprise Architecture Capability Supporting Cloud Enterprise Architecture Capability Case Study Examples Readership: Researchers, academics, professionals and graduate students in software engineering, information sciences and networking. Keywords: Agility; Agile Enterprise Architecture; Cloud Computing; Design Thinking; Innovation

'Open Agile Architecture(TM), 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.

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.

We are in a frenetic and a convoluted digital age. Every organisation strives to transform its business to stay competitive in this exponentially growing digital world. Digital transformation became pervasive and ubiquitous in all business ventures. This new norm of constant transformation requires architecting our business and underlying technology stacks rapidly. Establishing agile business architecture frameworks are fundamental requirements to achieve successful digital transformation outcomes. In this book, I attempt to share my knowledge and experience using a rigorous yet agile architectural method. My aim is to add accelerated value to the broader business architecture and digital transformation communities by focusing on the practical aspect with minimal emphasis on the theoretical aspect. The content in this book is based on

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The design of digital solutions has become a pressing concern for practitioners faced with a plethora of technology impacting their business. From cloud computing to social networks, mobile computing and big data, to the emerging of Internet of things, all of which are changing how enterprise products, services, rooms and buildings are connected to the wider ecosystem of networks and services. This book defines digital ecosystems with examples from real industry cases and explores how enterprise architecture is evolving to enable physical and virtual, social, and material object collaboration and experience. The key topics covered include: Concepts of digitization Types of technological ecosystems Architecting digital workspaces Principles of architecture design Examples architecting digital business models Examples of digital design patterns Methods of monetization Conclusions

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

This book analyzes the effects of the latest technological advances in blockchain and artificial intelligence (AI) on business operations and strategies. Adopting an interdisciplinary approach, the contributions examine new developments that change the rules of traditional management. The chapters focus mainly on blockchain technologies and digital business in the "Industry 4.0" context, covering such topics as accounting, digitalization and use of AI in business operations and cybercrime. Intended for academics, blockchain experts, students and practitioners, the book helps business strategists design a path for future opportunities.

Enterprise Architecture (EA) is the technical fabric of an enterprise. However, EA also transcends technology and moves into business space. Therefore, EA needs to be discussed in an integrated, holistic manner. Only such an integrated EA can provide the necessary basis for a business transformation that makes the business ready for the myriad business and technological challenges it will invariably face. For example, Big Data, mobile and cloud computing are all highly disruptive technologies that require a fine balance between their business and technical aspects as the organization moves forward. The book focuses on preparing organizations for the impact of these disruptive technologies.

Enterprise Architecture for Digital Business Integrated Transformation Strategies Auerbach Publications

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. "In this book, Vivek Kale makes an important contribution to the theory and practice of enterprise architecture ... this book captures the breadth and depth of information that a modern enterprise architecture must address to effectively support an agile enterprise. This book should have a place in every practicing architect's library." —John D. McDowall, Author of *Complex Enterprise Architecture Digital Transformation of Enterprise Architecture* is the first book to propose Enterprise Architecture (EA) as the most important element (after Business Models) for digital transformation of enterprises. This book makes digital transformation more tangible by showing the rationale and typical technologies associated with it, and these technologies in turn reveal the essence of digital transformation. This book would be useful for analysts, designers and developers of future-ready agile application systems. This book proposes that it is the perennial quest for interoperability & portability, scalability, availability, etc., that has directed and driven the evolution of the IT/IS industry in the past 50 years. It is this very quest that has led to the emergence of technologies like service-oriented, cloud, and big data computing. In addition to the conventional attributes of EA like interoperability, scalability and availability, this book identifies additional attributes of mobility, ubiquity, security, analyticity, and usability. This pragmatic book: Identifies three parts effort for any digital transformation: Business Models, Enterprise Architectures and Enterprise Processes. Describes eight attributes of EA: interoperability, scalability, availability, mobility, ubiquity, security, analyticity, and usability. Explains the corresponding technologies of service-oriented, cloud, big data, context-aware, Internet of Things (IoT), blockchain, soft, and interactive computing. Briefs on auxiliary technologies like integration, virtualization, replication, spatio-temporal databases, embedded systems, cryptography, data mining, and interactive interfaces that are essential for digital transformation of enterprise architecture. Introduces interactive interfaces like voice, gaze, gesture and 3D interfaces. Provides an overview of blockchain computing, soft computing, and customer interaction systems. *Digital Transformation of Enterprise Architecture* proposes that to withstand the disruptive digital storms of the future, enterprises must bring about digital transformation, i.e. a transformation that affects an exponential change (amplification or attenuation) in any aspect of the constituent attributes of EA. It proposes that each of these technologies (service-oriented, cloud, big data, context-aware, IoT, blockchain, soft, and interactive computing) bring about digital transformation of the corresponding EA attribute viz. interoperability, scalability, availability, mobility, ubiquity, security, analyticity, and usability. This is the first book that addresses all three main activities in improving business and technology decisions: the planning, design and assessment of enterprise architectures (EAs). Emphasis is on medium and large-size organizations in the private sector (such as banks, airlines and auto industries) and the public sector (such as federal agencies, local government organizations and military services in the Department of Defense). The book addresses the challenges faced by EA builders through an organized presentation of the issues and a step-by-step approach. The material is based on real-life EA project experience and lessons learned over a decade working in multiple-contractor, multiple-discipline teams, and multiple-agency

environments.

Design IT Organizations for Agility at Scale Aspiring digital businesses need overall IT agility, not just development team agility. In *Agile IT Organization Design*, IT management consultant and ThoughtWorks veteran Sriram Narayan shows how to infuse agility throughout your organization. Drawing on more than fifteen years' experience working with enterprise clients in IT-intensive industries, he introduces an agile approach to "Business-IT Effectiveness" that is as practical as it is valuable. The author shows how structural, political, operational, and cultural facets of organization design influence overall IT agility—and how you can promote better collaboration across diverse functions, from sales and marketing to product development, and engineering to IT operations. Through real examples, he helps you evaluate and improve organization designs that enhance autonomy, mastery, and purpose: the key ingredients for a highly motivated workforce. You'll find "close range" coverage of team design, accountability, alignment, project finance, tooling, metrics, organizational norms, communication, and culture. For each, you'll gain a deeper understanding of where your organization stands, and clear direction for making improvements. Ready to optimize the performance of your IT organization or digital business? Here are practical solutions for the long term, and for right now. Govern for value over predictability Organize for responsiveness, not lowest cost Clarify accountability for outcomes and for decisions along the way Strengthen the alignment of autonomous teams Move beyond project teams to capability teams Break down tool-induced silos Choose financial practices that are free of harmful side effects Create and retain great teams despite today's "talent crunch" Reform metrics to promote (not prevent) agility Evolve culture through improvements to structure, practices, and leadership—and careful, deliberate interventions

This book constitutes the proceedings of the Third Asia Pacific Requirements Engineering Symposium, APRES 2016, held in Nagoya, Japan, in November 2016. The 7 full papers presented together with three short papers, were carefully reviewed and selected from 14 submissions. The papers are organized in topical sections on requirements traceability and prioritization; requirements modeling and process for quality; requirements validation; requirements analysis.

This textbook provides a hands-on introduction to enterprise architecture management. It guides the reader through the applications of methods and tools to typical business problems by presenting enterprise architecture frameworks and by sharing experiences from industry. The structure of the book represents the typical stages of the journey of an enterprise architect. Chapter 1 addresses the central question of what to achieve with the introduction of an enterprise architecture. Chapter 2 then introduces concepts and visualizations for business architecture that help with understanding the business. In chapter 3 the development of an application architecture is outlined, which provides transparency on information systems and their business context. Next, chapter 4 presents visual tools to analyze, improve and eventually optimize the application landscape. Chapter 5 discusses both traditional organizational as well as collaborative approaches to enterprise architecture management. Eventually, several established enterprise architecture frameworks like TOGAF, Zachmann, ArchiMate, and IAF are described in chapter 6. The book concludes with a summary and an outlook on future research potential in chapter 7. Based on their experiences through several years of teaching, the authors introduce students step-by-step to enterprise architecture development and management. Their book is intended as a guide for master classes at universities and includes lots of exercises and references for further reading.

This book constitutes the thoroughly refereed proceedings of seven international workshops held in Stockholm, Sweden, in conjunction with the 27th International Conference on Advanced Information Systems Engineering, CAiSE 2015, in June 2015. The 38 full and nine short papers were carefully selected from 107 submissions. The workshops were the Second

International Workshop on Advances in Services Design based on the Notion of Capability (ASDENCA), the Third International Workshop on Cognitive Aspects of Information Systems Engineering (COGNISE), the First International Workshop on Digital Business Innovation and the Future Enterprise Information Systems Engineering (DiFenSE), the First International Workshop on Enterprise Modeling (EM), the First Workshop on the Role of Real-World Objects in Business Process Management Systems (RW-BPMS), the 10th International Workshop on Trends in Enterprise Architecture Research (TEAR), and the 5th International Workshop on Information Systems Security Engineering (WISSE).

This book contains all refereed papers that were accepted to the first edition of the « Digital Enterprise Design & Management » (DED&M 2013) international conference that took place in Paris (France) from February 12 to February 13, 2013. (Website: <http://www.dedm2013.dedm.fr/>) These proceedings cover the most recent trends in the emerging field of Digital Enterprise, both from an academic and a professional perspective. A special focus is put on digital uses, digital strategies, digital infrastructures and digital governance from an Enterprise Architecture point of view. The DED&M 2013 conference is organized under the guidance of the CESAMES non profit organization (<http://www.cesames.net/>). The digital economy is at a tipping point. This practical book defines digital ecosystems, discusses digital design using converging technologies of social networking, mobility, big data and cloud computing, and provides a methods for linking digital technologies together to meet the challenges of building a digital enterprise in the new economy.

This book highlights new trends and challenges in intelligent systems, which play an important part in the digital transformation of many areas of science and practice. It includes papers offering a deeper understanding of the human-centred perspective on artificial intelligence, of intelligent value co-creation, ethics, value-oriented digital models, transparency, and intelligent digital architectures and engineering to support digital services and intelligent systems, the transformation of structures in digital businesses and intelligent systems based on human practices, as well as the study of interaction and the co-adaptation of humans and systems. All papers were originally presented at the International KES Conference on Human Centred Intelligent Systems 2020 (KES HCIS 2020), held on June 17–19, 2020, in Split, Croatia.

Lankhorst and his co-authors present ArchiMate® 3.0, 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. This fourth edition of the book has been completely reworked to be compatible with ArchiMate® 3.0, and it includes a new chapter relating this new version to other standards. New sections on capability analysis, risk analysis, and business architecture in general have also been introduced.

The purpose of DIGITAL MASTER is to envision the multidimensional impact that digital philosophy, technology, and methodology will have on the future of business and human society. In today's overly complex, hyperconnected, and interdependent business dynamic, Digital Masters – the highly mature organizations – not only apply the most advanced digital technology into their business management disciplines but, more importantly, they orchestrate the harmonized digital symphony across all key business arenas, from shaping the digital mindset to building the high performing organization:

- Develop visionary digital leadership
- Shape open and creative digital mindsets
- Craft and execute a holistic digital strategy
- Advocate digital innovation next practices
- Refine a highly effective enterprise culture
- Optimize high-performing business capabilities
- Explore data-rich digital Intelligence
- Unleash enriched digital talent potential
- Pursue high level digital maturity

This book constitutes the proceedings of the 14th International Conference on Research Challenges in Information Sciences, RCIS 2020, held in Limassol, Cyprus, during September 23-25, 2020. The conference was originally scheduled in for 2020, but the organizing committee was forced to postpone the conference due to the outbreak of the COVID-19 pandemic. The scope of RCIS 2020 is summarized by the thematic areas of information systems and their engineering; user-oriented approaches; data and information management; business process management; domain-specific information systems engineering; data science; information infrastructures, and reflective research and practice. The 26 full papers and 3 work in progress papers presented in this volume were carefully reviewed and selected from 106 submissions. They were organized in topical sections named: Data Analytics and Business Intelligence; Digital Enterprise and Technologies; Human Factors in Information Systems; Information Systems Development and Testing; Machine Learning and Text Processing; and Security and Privacy. The volume also contains 12 poster and demo-papers, and 4 Doctoral Consortium papers.

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.

This book investigates what enterprises can do and/or what should it be capable of in order to accelerate organizational changes. Therefore, a capability-based method is developed, which assists in the identification, structuring and management of capabilities. The approach is embedded in a process comprising four building blocks that provide appropriate procedures, concepts and supporting tools evolved from theory and practical use cases. The guide represents a flexible method for capability newcomers and experienced audiences to optimize enterprises' economic impacts of EAM supporting the alignment of business and IT.

Learn how to integrate well-known concepts, methods and processes from ITIL® and COBIT®, combining the best from each approach. IT4B is not about reinventing your favourite method, but putting it into the context of improvement and identifying any potential gaps. Written by service management experts with years of real-life experience, ensuring sensible, practical and effective advice. This book reads like a conversation on IT service management. Rather than reinventing traditional IT frameworks or methods, IT4B provides a coherent understanding of digital readiness for your enterprise. It offers insight and coaching, rather than ready-made advice. This book aims to: Use well-known service management concepts, methods and processes to focus on digital innovation; Promote a reuse-reduce-recycle approach to improve projects, rather than grow-expand-explode; and Use the IT4B framework as a lens that will guide all your projects. So what is IT4B? IT '4' for business is an acronym for the business community to use, and is intended to help the business side of a company determine whether their IT is 'aligned' or 'integrated' and what is missing. This book serves as a guide for the identification and the implementation of IT methods.

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)

Enterprise Architecture (EA) is an essential part of the fabric of a business; however, EA also transcends and transforms technology and moves it into the business space. Therefore, EA needs to be discussed in an integrated, holistic, and comprehensive manner. Only such an integrated approach to EA can provide the foundation for a transformation that readies the

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

This book constitutes the refereed proceedings of the 5th International Conference, ICDEc 2020, held in Bucharest, Romania, in June 2020. Due to the COVID-19 pandemic the conference took place virtually. The 13 full papers presented in this volume together with 3 abstracts of keynotes and 1 introductory paper by the steering committee were carefully reviewed and selected from a total of 41 submissions. The core theme of this years conference was "Emerging Technologies & Business Innovation" The papers were organized in four topical sections named: digital transformation, data analytics, digital marketing, and digital business models.

This book contains all refereed papers that were accepted to the second edition of the « Digital Enterprise Design & Management » (DED&M 2014) international conference that took place in Paris (France) from February 4 to February 5, 2014. These proceedings cover the most recent trends in the emerging field of Digital Enterprise, both from an academic and a professional perspective. A special focus is put on digital uses, digital strategies, digital infrastructures and digital governance from an Enterprise Architecture point of view. The DED&M 2014 conference is organized under the guidance of the Center of Excellence on Systems Architecture, Management, Economy and Strategy and benefits from the supports of both the Orange – Ecole Polytechnique – Télécom ParisTech "Innovation and Regulation" Chair and the Dassault Aviation – DCNS – DGA – Thales – Ecole Polytechnique – ENSTA ParisTech – Télécom ParisTech "Complex Systems Engineering" Chair.

Remaining competitive in the retail industry of South Africa in the digital age is a major business concern. In the age of „digital natives”, people are well-connected on various digital technology platforms and are digital consumers. Digital technologies offer retail organizations new innovative ways to create value by utilizing digital business strategies, processes, and products. This qualitative research study explores the perception of retail strategy experts and decision-makers toward realignment of IT and business strategies considering digital transformation in South Africa. Based on interviews with seven managers and decision-makers in the retail industry, the study reveals that digital technologies have disrupted traditional ways of doing business. The study proposes eight major recommendations, in which retail traders could innovate their business strategy to enhance value creation beyond traditional approaches to retailing. It provides a good starting point for academic research in a domain that is deficient in theoretical and empirical research on the South Africa retail sector, and offers retailing managers a conceptual model to guide them toward a digital business strategy for transient competitive advantages.

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