

Strategic Enterprise Architecture Management Challenges Best Practices And Future Developments Management For Professionals

Enterprise architecture defines a firm's needs for standardized tasks, job roles, systems, infrastructure, and data in core business processes. This book explains enterprise architecture's vital role in enabling - or constraining - the execution of business strategy. It provides frameworks, case examples, and more.

What would be the goal or target for a Enterprise Architecture Management's improvement team? What are our Enterprise Architecture Management Processes? Is there a critical path to deliver Enterprise Architecture Management results? Is the impact that Enterprise Architecture Management has shown? Are there any specific expectations or concerns about the Enterprise Architecture Management team, Enterprise Architecture Management itself? This instant Enterprise Architecture Management self-assessment will make you the entrusted Enterprise Architecture Management domain authority by revealing just what you need to know to be fluent and ready for any Enterprise Architecture Management challenge. How do I reduce the effort in the Enterprise Architecture Management work to be done to get problems solved? How can I ensure that plans of action include every Enterprise Architecture Management task and that every Enterprise Architecture Management outcome is in place? How will I save time investigating strategic and tactical options and ensuring Enterprise Architecture Management opportunity costs are low? How can I deliver tailored Enterprise Architecture Management advise instantly with structured going-forward plans? There's no better guide through these mind-expanding questions than acclaimed best-selling author Gerard Blokdyk. Blokdyk ensures all Enterprise Architecture Management essentials are covered, from every angle: the Enterprise Architecture Management self-assessment shows succinctly and clearly that what needs to be clarified to organize the business/project activities and processes so that Enterprise Architecture Management outcomes are achieved. Contains extensive criteria grounded in past and current successful projects and activities by experienced Enterprise Architecture Management practitioners. Their mastery, combined with the uncommon elegance of the self-assessment, provides its superior value to you in knowing how to ensure the outcome of any efforts in Enterprise Architecture Management are maximized with professional results. Your purchase includes access to the \$249 value Enterprise Architecture Management self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows your organization exactly what to do next. Your exclusive instant access details can be found in your book.

This book reflects the tremendous changes in the telecommunications industry in the course of the past few decades – shorter innovation cycles, stiffer competition and new communication products. It analyzes the transformation of processes, applications and network technologies that are now expected to take place under enormous time pressure. The International Telecommunication Union (ITU) and the TM Forum have provided reference solutions that are broadly recognized and used

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throughout the value chain of the telecommunications industry, and which can be considered the de facto standard. The book describes how these reference solutions can be used in a practical context: it presents the latest insights into their development, highlights lessons learned from numerous international projects and combines them with well-founded research results in enterprise architecture management and reference modeling. The complete architectural transformation is explained, from the planning and set-up stage to the implementation. Featuring a wealth of examples and illustrations, the book offers a valuable resource for telecommunication professionals, enterprise architects and project managers alike.

This book contains a selection of articles from The 2014 World Conference on Information Systems and Technologies (WorldCIST'14), held between the 15th and 18th of April in Funchal, Madeira, Portugal, a global forum for researchers and practitioners to present and discuss recent results and innovations, current trends, professional experiences and challenges of modern Information Systems and Technologies research, technological development and applications. The main topics covered are: Information and Knowledge Management; Organizational Models and Information Systems; Intelligent and Decision Support Systems; Software Systems, Architectures, Applications and Tools; Computer Networks, Mobility and Pervasive Systems; Radar Technologies; Human-Computer Interaction; Health Informatics and Information Technologies in Education.

The Internet of Things, cloud computing, connected vehicles, Big Data, analytics — what does this have to do with the automotive industry? This book provides information about the future of mobility trends resulting from digitisation, connectedness, personalisation and data insights. The automotive industry is on the verge of undergoing a fundamental transformation. Large, traditional companies in particular will have to adapt, develop new business models and implement flexibility with the aid of appropriate enterprise architectures. Transforming critical business competencies is the key concept. The vehicle of the digital future is already here — who will shape it?

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 volume constitutes the proceedings of the 10th IFIP WG 8.1 Conference on the Practice of Enterprise Modeling held in November 2017 in Leuven, Belgium. The conference was created by the International Federation for Information Processing (IFIP) Working Group 8.1 to offer a forum for knowledge transfer and experience sharing between the academic and practitioner communities. The 20 full papers and 4 short papers accepted were carefully reviewed and selected from 70 submissions. They include research results, practitioner/experience reports and work-in-progress papers and were presented in 8 sessions covering diverse topics related to enterprise modelling and its application in practice.

This book constitutes the thoroughly refereed short papers, workshops and doctoral consortium papers of the 22th European Conference on Advances in Databases and Information Systems, ADBIS 2018, held in Budapest, Hungary, in September 2018.

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The 20 full and the 4 short workshop papers as well as the 3 doctoral consortium papers were carefully reviewed and selected from 54 submissions to the workshops and 6 submissions to the doctoral consortium. Furthermore, there are 10 short papers included, which were accepted for the main conference. The papers are organized according to the 6 workshops and the doctoral consortium: ADBIS 2018 short papers; First Workshop on Advances on Big Data Management, Analytics, Data Privacy and Security, BigDataMAPS 2018; First International Workshop on New Frontiers on Meta-data Management and Usage, M2U 2018; First Citizen Science Applications and Citizen Databases Workshop, CSADB 2018; First International Workshop on Artificial Intelligence for Question Answering, AI*QA 2018; First International Workshop on BIG Data Storage, Processing and Mining for Personalized MEDicine, BIGPMED 2018; First Workshop on Current Trends in Contemporary Information Systems and Their Architectures, ISTREND 2018; Doctoral Consortium.

Computing Handbook, Third Edition: Information Systems and Information Technology demonstrates the richness and breadth of the IS and IT disciplines. The second volume of this popular handbook explores their close links to the practice of using, managing, and developing IT-based solutions to advance the goals of modern organizational environments. Established leading experts and influential young researchers present introductions to the current status and future directions of research and give in-depth perspectives on the contributions of academic research to the practice of IS and IT development, use, and management. Like the first volume, this second volume describes what occurs in research laboratories, educational institutions, and public and private organizations to advance the effective development and use of computers and computing in today's world. Research-level survey articles provide deep insights into the computing discipline, enabling readers to understand the principles and practices that drive computing education, research, and development in the twenty-first century.

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

These proceedings represent the work of researchers participating in the 6th International Conference on Management, Leadership and Governance (ICMLG 2018) which is being hosted this year by the Institute for Knowledge and Innovation

Southeast Asia (IKI-SEA), a Centre of Excellence of at Bangkok University, Thailand on 24-25 May 2018.

Recordkeeping in International Organizations offers an important treatment of international organizations from a recordkeeping perspective, while also illustrating how recordkeeping can play a vital role in our efforts to improve global social conditions. Demonstrating that organizations have both a responsibility and an incentive to effectively manage their records in order to make informed decisions, remain accountable to stakeholders, and preserve institutional history, the book offers practical insights and critical reflections on the effective management, protection, and archiving of records. Through policy advice, surveys, mind mapping, case studies, and strategic reflections, the book provides guidance in the areas of archives, records, and information management for the future. Among the topics addressed are educational requirements for recordkeeping professionals, communication policies, data protection and privacy, cloud computing, classification and declassification policies, artificial intelligence, risk management, enterprise architecture, and the concepts of extraterritoriality and inviolability of archives. The book also offers perspectives on how digital recordkeeping can support the UN's 2030 Agenda for Sustainable Development, and the accompanying Sustainable Development Goals (SDGs). Recordkeeping in International Organizations will be essential reading for records and archives professionals, information technology, legal, security, management, and leadership staff, including chief information officers. The book should also be of interest to students and scholars engaged in the study of records, archives, and information management, information technology, information security, and law.

An Executive Guide to Data Management

This book constitutes the proceedings of the 9th Enterprise Engineering Working Conference, EEWC 2019, held in Lisbon, Portugal, May 2019. EEWC aims at addressing the challenges that modern and complex enterprises are facing in a rapidly changing world. The participants of the working conference share a belief that dealing with these challenges requires rigorous and scientific solutions, focusing on the design and engineering of enterprises. The goal of EEWC is to stimulate interaction between the different stakeholders, scientists as well as practitioners, interested in making Enterprise Engineering a reality. The 8 full papers and 3 short papers presented in this volume were carefully reviewed and selected from 22 submissions. They were organized in topical sections on processes; DEMO; models and enterprise architecture; and blockchain.

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

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operations and cybercrime. Intended for academics, blockchain experts, students and practitioners, the book helps business strategists design a path for future opportunities.

What potential environmental factors impact the Enterprise Architecture Management effort? Have the types of risks that may impact Enterprise Architecture Management been identified and analyzed? Who are the people involved in developing and implementing Enterprise Architecture Management? What will drive Enterprise Architecture Management change? How do we measure improved Enterprise Architecture Management service perception, and satisfaction? This limited edition Enterprise architecture management self-assessment will make you the principal Enterprise architecture management domain specialist by revealing just what you need to know to be fluent and ready for any Enterprise architecture management challenge. How do I reduce the effort in the Enterprise architecture management work to be done to get problems solved? How can I ensure that plans of action include every Enterprise architecture management task and that every Enterprise architecture management outcome is in place? How will I save time investigating strategic and tactical options and ensuring Enterprise architecture management costs are low? How can I deliver tailored Enterprise architecture management advice instantly with structured going-forward plans? There's no better guide through these mind-expanding questions than acclaimed best-selling author Gerard Blokdyk. Blokdyk ensures all Enterprise architecture management essentials are covered, from every angle: the Enterprise architecture management self-assessment shows succinctly and clearly that what needs to be clarified to organize the required activities and processes so that Enterprise architecture management outcomes are achieved. Contains extensive criteria grounded in past and current successful projects and activities by experienced Enterprise architecture management practitioners. Their mastery, combined with the easy elegance of the self-assessment, provides its superior value to you in knowing how to ensure the outcome of any efforts in Enterprise architecture management are maximized with professional results. Your purchase includes access details to the Enterprise architecture management self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows you exactly what to do next. Your exclusive instant access details can be found in your book.

The two-volume set LNBIP 353 and 354 constitutes the proceedings of the 22nd International Conference on Business Information Systems, BIS 2019, held in Seville, Spain, in June 2019. The theme of the BIS 2019 was "Data Science for Business Information Systems", inspiring researchers to share theoretical and practical knowledge of the different aspects related to Data Science in enterprises. The 67 papers presented in these proceedings were carefully reviewed and selected from 223 submissions. The contributions were organized in topical sections as follows: Part I: Big Data and Data Science; Artificial Intelligence; ICT Project Management; and Smart Infrastructure. Part II: Social Media and Web-based Systems; and Applications, Evaluations and Experiences.

Safety and Reliability – Safe Societies in a Changing World collects the papers presented at the 28th European Safety and Reliability

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Conference, ESREL 2018 in Trondheim, Norway, June 17-21, 2018. The contributions cover a wide range of methodologies and application areas for safety and reliability that contribute to safe societies in a changing world. These methodologies and applications include: - foundations of risk and reliability assessment and management - mathematical methods in reliability and safety - risk assessment - risk management - system reliability - uncertainty analysis - digitalization and big data - prognostics and system health management - occupational safety - accident and incident modeling - maintenance modeling and applications - simulation for safety and reliability analysis - dynamic risk and barrier management - organizational factors and safety culture - human factors and human reliability - resilience engineering - structural reliability - natural hazards - security - economic analysis in risk management Safety and Reliability – Safe Societies in a Changing World will be invaluable to academics and professionals working in a wide range of industrial and governmental sectors: offshore oil and gas, nuclear engineering, aeronautics and aerospace, marine transport and engineering, railways, road transport, automotive engineering, civil engineering, critical infrastructures, electrical and electronic engineering, energy production and distribution, environmental engineering, information technology and telecommunications, insurance and finance, manufacturing, marine transport, mechanical engineering, security and protection, and policy making.

This book constitutes the thoroughly refereed proceedings of three international workshops held in Essen, Germany, in conjunction with the 29th International Conference on Advanced Information Systems Engineering, CAiSE 2017, in June 2017. The 11 full papers presented were carefully reviewed and selected from 27 submissions. The workshops were the 4th International Workshop on Advances in Services Design Based on the Notion of Capability (ASDENCA); the 5th International Workshop on Cognitive Aspects of Information Systems Engineering (COGNISE); and the First International Workshop on Teaching for Smart Information Systems – Smart Information Systems for Teaching (T4SIS4T), which took place as a dedicated session under the umbrella of the COGNISE workshop.

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This book draws on the author's own experience as a practitioner, collaborations with professionals from small and medium-sized businesses with international scope in North Macedonia and Belgium, and academic research. Its goal is to bring together tactical management and information systems research in complex environments. By developing the "DENICA" managerial method it re-introduces tactics as an important managerial function and underestimated source of competitive advantage. The book also offers a roadmap for dynamic reconfiguration of the managerial systems in complex environment, while considering adaptability, sustainability and effectiveness in the process. Furthermore, the book introduces a methodological "kaleidoscope" which combines IS methodology with the managerial sciences, offering a model that can be adapted and replicated to specific contexts in order to achieve fitting solutions. Real-world case studies from North Macedonia and Belgium apply these methods and illustrate their practical implications.

This book constitutes a collection of selected contributions from the 12th International Conference on Perspectives in Business Informatics Research, BIR 2013, held in Warsaw, Poland, in September 2013. Overall, 54 submissions were rigorously reviewed by 41 members of the Program Committee representing 21 countries. As a result, 19 full and 5 short papers from 12 countries have been selected for publication in this volume. This book also includes the two keynotes by Witold Abramowicz and Bernhard Thalheim. The papers cover many aspects of business information research and have been organized in topical sections on: business process management; enterprise and knowledge architectures; organizations and information systems development; information systems and services; and applications.

This book investigates what enterprises can do and/or what should it be capable of in order to accelerate organizational changes. Therefore,

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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.

Designing Software Architectures will teach you how to design any software architecture in a systematic, predictable, repeatable, and cost-effective way. This book introduces a practical methodology for architecture design that any professional software engineer can use, provides structured methods supported by reusable chunks of design knowledge, and includes rich case studies that demonstrate how to use the methods. Using realistic examples, you'll master the powerful new version of the proven Attribute-Driven Design (ADD) 3.0 method and will learn how to use it to address key drivers, including quality attributes, such as modifiability, usability, and availability, along with functional requirements and architectural concerns. Drawing on their extensive experience, Humberto Cervantes and Rick Kazman guide you through crafting practical designs that support the full software life cycle, from requirements to maintenance and evolution. You'll learn how to successfully integrate design in your organizational context, and how to design systems that will be built with agile methods. Comprehensive coverage includes Understanding what architecture design involves, and where it fits in the full software development life cycle Mastering core design concepts, principles, and processes Understanding how to perform the steps of the ADD method Scaling design and analysis up or down, including design for pre-sale processes or lightweight architecture reviews Recognizing and optimizing critical relationships between analysis and design Utilizing proven, reusable design primitives and adapting them to specific problems and contexts Solving design problems in new domains, such as cloud, mobile, or big data

This double volumes LNCS 11229-11230 constitutes the refereed proceedings of the Confederated International Conferences: Cooperative Information Systems, CoopIS 2018, Ontologies, Databases, and Applications of Semantics, ODBASE 2018, and Cloud and Trusted Computing, C&TC, held as part of OTM 2018 in October 2018 in Valletta, Malta. The 64 full papers presented together with 22 short papers were carefully reviewed and selected from 173 submissions. The OTM program every year covers data and Web semantics, distributed objects, Web services, databases, informationsystems, enterprise workflow and collaboration, ubiquity, interoperability, mobility, grid and high-performance computing.

This book presents emerging trends in the evolution of service-oriented and enterprise architectures. New architectures and methods of both business and IT are integrating services to support mobility systems, Internet of Things, Ubiquitous Computing, collaborative and adaptive business processes, Big Data, and Cloud ecosystems. They inspire current and future digital strategies and create new opportunities for the digital transformation of next digital products and services. Services Oriented Architectures (SOA) and Enterprise Architectures (EA) have emerged as a useful framework for developing interoperable, large-scale systems, typically implementing various standards, like Web Services, REST, and Microservices. Managing the adaptation and evolution of such systems presents a great challenge. Service-Oriented Architecture enables flexibility through loose coupling, both between the services themselves and between the IT organizations that manage them. Enterprises evolve continuously by transforming and extending their services, processes and information systems. Enterprise Architectures provide a holistic blueprint to help

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define the structure and operation of an organization with the goal of determining how an organization can most effectively achieve its objectives. The book proposes several approaches to address the challenges of the service-oriented evolution of digital enterprise and software architectures.

This book presents a comprehensive overview of enterprise architecture management with a specific focus on the business aspects. While recent approaches to enterprise architecture management have dealt mainly with aspects of information technology, this book covers all areas of business architecture from business motivation and models to business execution. The book provides examples of how architectural thinking can be applied in these areas, thus combining different perspectives into a consistent whole. In-depth experiences from end-user organizations help readers to understand the abstract concepts of business architecture management and to form blueprints for their own professional approach. Business architecture professionals, researchers, and others working in the field of strategic business management will benefit from this comprehensive volume and its hands-on examples of successful business architecture management practices. ?

There is a critical point of failure for every knowledge management effort: when the strategy is isolated from the organization, and when there is no vision anchoring the strategy. This book guides professionals in learning to create a foundation for 21st century knowledge organizations.

This book constitutes the thoroughly refereed proceedings of six international workshops held in Tallinn, Estonia, in conjunction with the 30th International Conference on Advanced Information Systems Engineering, CAiSE 2018, in June 2018. These workshops were: – The 5th Workshop on Advances in Services DEsign based on the Notion of Capability (ASDENCA) – The 1st Workshop on Business Data Analytics: Techniques and Applications (BDA) – The 1st Workshop on Blockchains for Inter-Organizational Collaboration (BIOC) – The 6th Workshop on Cognitive Aspects of Information Systems Engineering (COGNISE) – The 2nd Workshop on Enterprise Modeling – The 1st Workshop on Flexible Advanced Information Systems (FAiSE) Two more workshops decided to produce their own, independent proceedings. The 22 full papers presented here were carefully reviewed and selected from a total of 49 submissions.

EGOV-CeDEM-ePart 2018 represents the merge of the IFIP WG 8.5 Electronic Government (EGOV), the IFIP WG 8.5 IFIP Electronic Participation (ePart) and the Conference for E-Democracy and Open Government Conference (CeDEM). The EGOV-CeDEM-ePart proceedings bring together the essence of academic and practical knowledge on e-government, e-democracy and open government, and e-participation. The peer-reviewed ongoing research papers, project descriptions, reflections and viewpoints, workshop and panel proposals, posters, and the PhD colloquium papers found in these proceedings capture the newest developments, trends, tools and procedures, and demonstrate the many ways that these impact society, the polity, and the economy.

This book constitutes revised papers from the six workshops held at the 19th International Conference on Business Information Systems, BIS 2016, held in Leipzig, Germany, in July 2016. The workshops included in this volume are: * The 8th Workshop on

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Applications of Knowledge-Based Technologies in Business - AKTB2016 accepted 7 papers from 14 submissions and features 1 invited talk. * The 7th Workshop on Business and IT Alignment - BITA 2016 selected 6 papers from 12 submissions. * The Workshop on Big Data and Business Analytics Ecosystems - DeBASE 2016 has 4 papers in this volume. * The First International Workshop on Intelligent Data Analysis in Integrated Social CRM - iCRM 2016 features 5 contributions. * The Second International Workshop on Digital Enterprise Engineering and Architecture - IDEA 2016 contributes 4 papers to this volume. * The First International Workshop on Integrative Analysis and Computation of Life Data for Smart Ecosystems - INCLuDE 2016 publishes 4 research papers. In addition, BIS hosted a Doctoral Consortium which was organized in a workshop formula. The best papers from this event are included in the book. In total, the workshops had 84 submissions of which 38 were accepted for publication. Published in association with the Society of American Archivists Trusting Records in the Cloud presents key findings of InterPARES Trust, an international research project that has investigated issues of trust in, and trustworthiness of records and data online, with respect to privacy, accessibility, portability, metadata and ownership. The project has produced theoretical and methodological frameworks for the development of local, national and international policies, procedures, regulations, standards and legislation, to ensure public trust grounded on evidence of good governance, strong digital economy and persistent digital memory. Topics include: - risks and remedies to the contracts the public must enter into with service providers - implementing retention and disposition schedules in the cloud - understanding the role of metadata in cloud services for chain of custody - rethinking issues of appraisal, arrangement and description - preservation as a series of services implementable by a variety of preservation actors - information governance, risk management, and authentication practices and technologies. This book is essential reading for records and archives managers, information professionals and organizations that are using or intend to use the cloud for the creation, management and preservation of their information; records and archives students and educators; individuals working in the academic, government and private sectors, and members of the public concerned about their personal information in the cloud.

Technology is constantly changing the way enterprises conduct business by optimizing current practices. As information technology continues to evolve and become a prevalent feature in day-to-day activities within organizations, it has become necessary to manage these technologies in order to meet the strategic objectives of an organization. Strategic IT Governance and Alignment in Business Settings investigates emergent research methodologies involving the application of information technology in organizations. Focusing on best practices, implementation issues, and empirical research within the field, this book is ideally suited for researchers, academics, students, and practitioners interested in the governance, strategy, architecture, and management of information systems.

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.

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).

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

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individual chapters have been written by leading researchers in the field of information systems development, enterprise modeling and capability management, as well as practitioners and industrial experts from these fields.

This book constitutes the proceedings of the 16th International Conference on Perspectives in Business Informatics Research, BIR 2017, held in Copenhagen, Denmark, in August 2017. This year the BIR conference attracted 59 submissions from 23 countries. They were reviewed by 45 members of the Program Committee, and as a result, 17 full papers and 3 short papers were selected for presentation at the conference and publication in this volume. They are organized in sections on enterprise architecture, business process management, business analytics, information systems applications, and information systems development. In addition, the summaries of the two conference keynotes are also included. This year, the conference theme was the digital transformation, which will impact most businesses, organizations and societies and call for new and radical approaches to how we adopt, use and manage IT.

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