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## KEY=MANAGEMENT - SIMPSON HOUSTON

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### FROM ENTERPRISE ARCHITECTURE TO IT GOVERNANCE

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#### ELEMENTS OF EFFECTIVE IT MANAGEMENT

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

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#### FUNDAMENTALS OF ENTERPRISE ARCHITECTURE MANAGEMENT

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#### FOUNDATIONS FOR STEERING THE ENTERPRISE-WIDE DIGITAL SYSTEM

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*Springer Nature* This textbook provides a comprehensive, holistic, scientifically precise, and practically relevant description of Enterprise Architecture Management (EAM). Based on state-of-the-art concepts, it also addresses current trends like disruptive digitization or agile methods. The book is structured in five chapters. The first chapter offers a comprehensive overview of EAM. It addresses questions like: what does EAM mean, what is the history of EAM, why do enterprises need EAM, what are its goals, and how is it related to digitalization? It also includes a short overview of essential EAM standards and literature. The second chapter provides an overview of Enterprise Architecture (EA). It starts with clarifying basic terminology and the difference between EA and EAM. It also gives a short summary of existing EA frameworks and methods for structuring the digital ecosystem into layers and views. The third chapter addresses the strategic and tactical context of the EAM capability in an enterprise. It defines essential terms and parameters in the context of enterprise strategy and tactics as well as the operative, organizational context of EAM. The fourth chapter specifies the detailed goals, processes, functions, artifacts, roles and tools of EAM, building the basis for an EAM process framework that provides a comprehensive overview of EAM processes and functions. Closing the circle, the last chapter describes how to evaluate EAM in an enterprise. It starts by laying out core terminology, like "metric" and "strategic performance measurement system" and ends with a framework that integrates the various measuring areas in the context of EA and EAM. This textbook focuses on two groups: First, EAM scholars, ie bachelor or master students of Business Information Systems, Business Administration or Computer Science. And second, EAM practitioners working in the field of IT strategy or EA who need a reliable, scientifically solid, and practically proven state-of-the-art description of essential EAM methods.

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#### SOA SOURCE BOOK

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*Van Haren* Software services are established as a programming concept, but their impact on the overall architecture of enterprise IT and business operations is not well-understood. This has led to problems in deploying SOA, and some disillusionment. The SOA Source Book adds to this a collection of reference material for SOA. It is an invaluable resource for enterprise architects working with SOA. The SOA Source Book will help enterprise architects to use SOA effectively. It explains: What SOA is How to evaluate SOA features in business terms How to model SOA How to use The Open Group Architecture Framework (TOGAF™) for SOA SOA governance This book explains how TOGAF can help to make an Enterprise Architecture. Enterprise Architecture is an approach that can help management to understand this growing complexity.

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#### EMPOWERING BUSINESSES WITH COLLABORATIVE ENTERPRISE ARCHITECTURE FRAMEWORKS

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*IGI Global* Increasingly, organizations allocate a substantial financial budget to the acquisition, implementation, and management of IT solutions. IT solutions are employed strategic partners in supporting business strategic outcome, and the solutions are tools used to support operational activities within an environment. Given the vast amounts being invested in IT solutions and development, there is a need for a better return and outcome for organizations. Empowering Businesses With Collaborative Enterprise Architecture Frameworks is an essential reference source that provides readers with pragmatic, implementable strategies and direction to create IT

with collaborative capabilities that can reduce the cost of running IT within an organization. Moreover, the book offers pragmatic roadmaps to adopting disruptive IT solutions effectively and efficiently and towards gaining a better understanding of enterprise architecture as a means to business decision making. Featuring research on topics such as business engineering, cloud computing, and open systems, this book is ideally designed for managers, directors, and other business decision makers; government and industry policymakers; business and enterprise architects; industry professionals; academicians; researchers; and students.

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## **TRENDS IN ENTERPRISE ARCHITECTURE RESEARCH AND PRACTICE-DRIVEN RESEARCH ON ENTERPRISE TRANSFORMATION**

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### **7TH WORKSHOP, TEAR 2012, AND 5TH WORKING CONFERENCE, PRET 2012, HELD AT THE OPEN GROUP CONFERENCE 2012, BARCELONA, SPAIN, OCTOBER 23-24, 2012, PROCEEDINGS**

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*Springer* This volume constitutes the proceedings of the combined 7th International Workshop on Trends in Enterprise Architecture Research (TEAR 2012) and the 5th Working Conference on Practice-Driven Research on Enterprise Transformation (PRET-5), held in Barcelona, Spain, October 23-24, 2012, and co-located with The Open Group's Conference on Enterprise Architecture, Cloud Computing, and Security. Joining the forces of the two events with The Open Group Conference provided the unique opportunity for an intensive exchange between practitioners as well as for discussions on standardization efforts and academic research in the areas of enterprise transformation and enterprise architecture (EA). Based on careful reviews by at least three Program Committee members, 18 papers were chosen for inclusion in these proceedings. They were presented in six sessions on enterprise architecture management (EAM) effectivity, languages for EA, EAM and the ability to change, advanced topics in EA, governing enterprise transformations, and EA applications.

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## **APPLYING BUSINESS CAPABILITIES IN A CORPORATE BUYER M&A PROCESS**

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*Springer* As a first step towards applying Enterprise Architecture Management (EAM) in Mergers and Acquisitions (M&A), Andreas Freitag investigates the end-to-end applicability of business capabilities in the M&A process of a corporate buyer organization. Enterprises still struggle to manage M&A efficiently. A significant number of merger projects do not reach the expected goals or fail completely. Therefore, companies attempt to improve their M&A capability by establishing the required skills, organization, processes and methods. EAM is an approach for business and IT planning, promising to contribute to the success of business transformation challenges such as M&A. Business capability models are an essential element of a state of the art EAM approach. They are frequently used as a starting point to work collaboratively with business and IT stakeholders.

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## **ADVANCES IN ENTERPRISE ENGINEERING III**

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### **5TH INTERNATIONAL WORKSHOP, CIAO! 2009, AND 5TH INTERNATIONAL WORKSHOP, EOMAS 2009, HELD AT CAISE 2009, AMSTERDAM, THE NETHERLANDS, JUNE 8-9, 2009, PROCEEDINGS**

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*Springer Science & Business Media* In the era of continuous changes in internal organizational settings and external business environments – such as new regulations and business opportunities – modern enterprises are subject to extensive research and study. For the understanding, design, and engineering of modern enterprises and their complex business processes, the discipline of enterprise engineering requires sound engineering principles and systematic approaches based on rigorous theories. Along with that, a paradigm shift seems to be needed for addressing these issues adequately. The main paradigm shift is the consideration of an enterprise and its business processes as a social system. In its social setting, an enterprise and its business processes represent actors with certain authorities and assigned roles, who assume certain responsibilities in order to provide a service to its environment. Second to that, a paradigm shift is to look at an enterprise as an artifact purposefully designed for a certain mission and goal. The need for this paradigm shift, along with the complexity and agility of modern enterprises, gives inspiration for the emerging discipline of enterprise engineering that requires development of new theories and methodologies. To this end, the prominent methods and tools of modeling and simulation play a significant role. Both (conceptual) modeling and simulation are widely used for understanding, analyzing, and engineering an enterprise (its organization and business processes).

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## **ARCHITECTURE AND PATTERNS FOR IT SERVICE MANAGEMENT, RESOURCE PLANNING, AND GOVERNANCE: MAKING SHOES FOR THE COBBLER'S CHILDREN**

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*Elsevier* *Architecture and Patterns for IT Service Management, Resource Planning, and Governance: Making Shoes for the Cobbler's Children* provides an independent examination of developments in Enterprise Resource Planning for Information. Major companies, research firms, and vendors are offering Enterprise Resource Planning for Information Technology, which they label as ERP for IT, IT Resource Planning and related terms. This book presents on-the-ground coverage of enabling IT governance in architectural detail, which can be used to define a strategy for immediate execution. It fills the gap between high-level guidance on IT governance and detailed discussions about specific vendor technologies. It provides a unique value chain approach to integrating the COBIT, ITIL, and CMM frameworks into a coherent, unified whole. It presents a field-tested, detailed conceptual information model with definitions and usage scenarios, mapped to both process and system architectures. This book is recommended for practitioners and managers engaged in IT support in large companies, particularly those who are information architects, enterprise architects, senior software engineers, program/project managers, and IT managers/directors.

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## **PRACTICE-DRIVEN RESEARCH ON ENTERPRISE TRANSFORMATION**

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### **SECOND WORKING CONFERENCE, PRET 2010, DELFT, THE NETHERLANDS, NOVEMBER 11, 2010, PROCEEDINGS**

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*Springer Science & Business Media* This volume constitutes the proceedings of the Second Working Conference on Practice-Driven

Research on Enterprise Transformation (PRET), held in Delft, The Netherlands, on November 11, 2010. PRET acts as a platform to bridge the gap between theory and practice, and strives for synergy and cross-fertilization between industry and academia. Thus all authors have been asked to combine theory and practice by using real-life case studies and referring to practical experiences. The 9 papers presented were carefully reviewed and selected from 24 submissions, and are grouped in three sections on situational transformation; portfolio, program and project management; and enterprise architecture to align business and IT.

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## **THE PRACTICE OF ENTERPRISE MODELING**

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### **6TH IFIP WG 8.1 WORKING CONFERENCE, POEM 2013, RIGA, LATVIA, NOVEMBER 6-7, 2013, PROCEEDINGS**

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*Springer* This volume constitutes the proceedings of the 6th IFIP WG 8.1 Conference on the Practice of Enterprise Modeling held in November 2013 in Riga, Latvia. The focus of the PoEM conference series is on advances in the practice of enterprise modeling through a forum for sharing knowledge and experiences between the academic community and practitioners from industry and the public sector. The 19 papers accepted were carefully reviewed and selected from 80 submissions. They reflect different topics of enterprise modeling including quality of models, change management and transformation, approaches and tools for agility and flexibility, enterprise modeling and business processes, enterprise modeling and information systems and enterprise modeling cases. Additionally, one of the two keynotes is also included in this volume.

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## **PRACTICE-DRIVEN RESEARCH ON ENTERPRISE TRANSFORMATION**

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### **4TH WORKING CONFERENCE, PRET 2012, GDAŃSK, POLAND, JUNE 27, 2012, PROCEEDINGS**

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*Springer* This volume constitutes the proceedings of the 4th Working Conference on Practice-Driven Research on Enterprise Transformation (PRET), held in Gdańsk, Poland, on June 27, 2012, as the industrial track of the 24th International Conference on Advanced Information Systems Engineering (CAiSE 2012). Restructuring, divesting, improving performance, and merging are among the usual transformation activities that enterprises conduct to provide answers to the challenging demands put on them. To foster the much-needed debate between researchers and practitioners on these topics, the number of papers accepted for PRET is kept low, providing the authors and the audience with ample time to engage in discussions about both the practical implications of results and the theoretical underpinnings of phenomena observed in industrial practice. This year, five papers were selected after careful review, and each paper is between 20 and 25 pages long, to allow for the presentation of details. The topics covered include enterprise architecture, business and IT alignment, and business process management and evaluation.

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## **SERVICE SCIENCE AND KNOWLEDGE INNOVATION**

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### **15TH IFIP WG 8.1 INTERNATIONAL CONFERENCE ON INFORMATICS AND SEMIOTICS IN ORGANISATIONS, ICISO 2014, SHANGHAI, CHINA, MAY 23-24, 2014, PROCEEDINGS**

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*Springer* This book constitutes the refereed proceedings of the 15th IFIP WG 8.1 International Conference on Informatics and Semiotics in Organisations, ICISO 2014, held in Shanghai, China, in May 2014. The 39 revised papers presented at the main conference were carefully reviewed and selected from 88 submissions. Additionally, 10 papers were selected for presentation at two workshops held in the framework of ICISO 2014. The papers have been organized in the following topical sections: organizational semiotics: theory and concepts; organizational semiotics and applications; finance and service science; enterprise architecture; modelling and simulation and decision making and knowledge management. The last two sections contain papers from the Workshop on e-Health, the New Frontier of Service Science Innovation and the International Workshop on Information Engineering and Management.

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## **BUSINESS PROCESS MANAGEMENT: BLOCKCHAIN AND CENTRAL AND EASTERN EUROPE FORUM**

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### **BPM 2019 BLOCKCHAIN AND CEE FORUM, VIENNA, AUSTRIA, SEPTEMBER 1-6, 2019, PROCEEDINGS**

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*Springer Nature* This book constitutes the contributions presented at the Blockchain Forum and the Central and Eastern Europe Forum (CEE Forum) held at the 17th International Conference on Business Process Management, BPM 2019, which took place in Vienna, Austria, in September 2019. The Blockchain Forum deals with the use of blockchain for collaborative information systems. Conceptual, technical and application-oriented contributions are pursued within the scope of this theme. The Blockchain Forum received a total of 31 submissions; 10 full and 1 short paper were accepted for publication in this book. The objective of the CEE Forum is to foster discussion for BPM academics from Central and Eastern Europe to disseminate their research, compare results and share experiences. For the CEE Forum 16 submissions were received and 6 full and 2 short papers were accepted for publication. The book also contains one invited talk in full-paper length and 6 poster papers from the CEE Forum.

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## **SUSTAINABLE ENTERPRISE ARCHITECTURE**

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*CRC Press* Enterprise architecture requires an understanding of all technologies, strategies, and data consumption throughout the enterprise. To this end, one must strive to always broaden knowledge of existing, as well as emerging trends and solutions. As a trade, this role demands an understanding beyond the specificities of technologies and vendor products. An enterprise architect must be versatile with the design and arrangement of elements in an extended network enterprise. Intended for anyone charged with coordinating enterprise architectural design in a small, medium, or large organization, Sustainable Enterprise Architecture helps you explore the various elements of your own particular network environment to develop strategies for mid- to long-term management and sustainable growth. Organized much like a book on structural architecture, this one starts with a solid foundation of frameworks and general guidelines for enterprise governance and design. The book covers common considerations for all enterprises, and then drills down to specific types of technology that may be found in your enterprise. It explores strategies for protecting enterprise resources and examines technologies and strategies that are only just beginning to take place in the modern enterprise network. Each

chapter builds on the knowledge and understanding of topics presented earlier in the book to give you a thorough understanding of the challenges and opportunities in managing enterprise resources within a well-designed architectural strategy. Emphasizing only those strategies that weather change, Sustainable Enterprise Architecture shows you how to evaluate your own unique environment and find alignment with the concepts of sustainability and architecture. It gives you the tools to build solutions and policies to protect your enterprise and allow it to provide the greatest organizational value into the future.

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## **E-INFRASTRUCTURE AND E-SERVICES FOR DEVELOPING COUNTRIES**

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### **6TH INTERNATIONAL CONFERENCE, AFRICOMM 2014, KAMPALA, UGANDA, NOVEMBER 24-25, 2014, REVISED SELECTED PAPERS**

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*Springer* This book constitutes the thoroughly refereed proceedings of the 6th International Conference on e-Infrastructure and e-Services for Developing Countries, AFRICOMM 2014, held in Kampala, Uganda, November 24-25, 2014. The 31 revised full papers were carefully selected from 57 submissions and cover topics such as communication infrastructure, health, IoT, cloud computing and TVWS, ICT4D applications, access to information, and ICT4D miscellaneous.

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## **ENTERPRISE, BUSINESS-PROCESS AND INFORMATION SYSTEMS MODELING**

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### **12TH INTERNATIONAL CONFERENCE, BPMDS 2011, AND 16TH INTERNATIONAL CONFERENCE, EMMSAD 2011, HELD AT CAISE 2011, LONDON, UK, JUNE 20-21, 2011. PROCEEDINGS**

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*Springer Science & Business Media* This book contains the refereed proceedings of the 12th International Conference on Business Process Modeling, Development and Support (BPMDS 2011) and the 16th International Conference on Exploring Modeling Methods for Systems Analysis and Design (EMMSAD 2011), held together with the 23rd International Conference on Advanced Information Systems Engineering (CAiSE 2011) in London, UK, in June 2011. The 22 papers accepted for BPMDS were selected from 61 submissions and cover a wide spectrum of issues related to business processes development, modeling, and support. They are grouped into sections on BPMDS in practice, business process improvement, business process flexibility, declarative process models, variety of modeling paradigms, business process modeling and support systems development, and interoperability and mobility. The 16 papers accepted for EMMSAD were chosen from 31 submissions and focus on exploring, evaluating, and enhancing current information modeling methods and methodologies. They are grouped in sections on workflow and process modeling extensions, requirements analysis and information systems development, requirements evolution and information systems evolution, data modeling languages and business rules, conceptual modeling practice, and enterprise architecture.

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## **ENTERPRISE AND ORGANIZATIONAL MODELING AND SIMULATION**

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### **6TH INTERNATIONAL WORKSHOP, EOMAS 2010, HELD AT CAISE 2010, HAMMAMET, TUNISIA, JUNE 7-8, 2010, SELECTED PAPERS**

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*Springer Science & Business Media* Enterprises of the 21st century are crucial components in delivering services to society and contributing to economic prosperity. Service is delivered when an enterprise is conducting its business within its business environment. With the growing complexity of modern business processes and continuously changing business environment, enterprise study (enterprise engineering) requires profound engineering approaches with properties such as ability for reengineering, scalability, adaptability, and reimplementation. Enterprises are purposefully designed and implemented systems to fulfill certain functions. As any system, enterprises are objects of continuous improvements, redesign and reimplementation. Usually, a redesigning activity is triggered by changes in the business environment, where the enterprise is functioning (delivering its service), or an internal need for efficiency. The departure point for any design or redesign activity pertinent to an enterprise is first to understand the enterprise business processes. Therefore, in the overall enterprise engineering activities, business process modeling plays a central role. However, an extended enterprise and organizational study involves both analysis and design activities, in which modeling and simulation play prominent roles. The growing role of modeling and simulation attracts serious attention of researchers in the context of enterprises. Modeling and simulation are the tools and methods that are effective, efficient, economic, and widely used in enterprise engineering, organizational study, and business process management. Complementary insights of modeling and simulation in enterprise engineering constitute a whole cycle of study of these complex sociotechnical system enterprises.

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## **ENTERPRISE, BUSINESS-PROCESS AND INFORMATION SYSTEMS MODELING**

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### **11TH INTERNATIONAL WORKSHOP, BPMDS 2010, AND 15TH INTERNATIONAL CONFERENCE, EMMSAD 2010, HELD AT CAISE 2010, HAMMAMET, TUNISIA, JUNE 7-8, 2010, PROCEEDINGS**

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*Springer Science & Business Media* This book contains the proceedings of two well established scientific events held in connection with the CAiSE conferences relating to the areas of enterprise, business-processes, and information systems modeling: - The 11th International Workshop on Business Process Modeling, Development and Support (BPMDS 2010); - The 15th International Conference on Exploring Modeling Methods for Systems Analysis and Design (EMMSAD 2010). The two events are introduced briefly below. BPMDS 2010 was the 11th in a series of workshops that have successfully served as a forum for raising and discussing new ideas in the area of business process development and support. The BPMDS series has produced 10 workshops from 1998 to 2009. Eight of these workshops, including the last seven (BPMDS 2003-BPMDS 2009) were held in conjunction with CAiSE conferences. The BPMDS workshops focus on topics relating to IT support for business processes, which addresses key issues that are relevant to the continuous development of information systems theory. The continued interest in these topics within the industrial and academic IS communities is reflected by the success of the last BPMDS workshops and the emergence of new conferences devoted to this theme. Previous BPMDS workshops focused on the different phases in the business process life-

cycle as well as the driver that motivate and initiate business process design and evolution.

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## **ENTERPRISE INTEROPERABILITY**

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### **SECOND IFIP WG 5.8 INTERNATIONAL WORKSHOP, IWEI 2009, VALENCIA, SPAIN, OCTOBER 13-14, 2009, PROCEEDINGS**

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*Springer* One of the trends in the global market is the increasing collaboration among enterprises. Constant changes in inter- and intra-organizational environments will persist in the future. Organizations have to flexibly and continuously react to (imminent) changes in markets and trading partners. Large companies but also SMEs have to cope with internal changes from both a technical (e.g., new information, communication, software and hardware technologies) and an organizational point of view (e.g., merging, re-organization, virtual organizations, etc.). In this context, the competitiveness of an enterprise depends not only on its internal performance to produce products and services, but also on its ability to seamlessly interoperate with other enterprises. External and internal collaborative work needs more interoperable solutions. The International Workshop on Enterprise Interoperability, IWEI, aims at identifying and discussing challenges and solutions with respect to enterprise interoperability, both at the business and the technical level. The workshop promotes the development of a scientific foundation for specifying, analyzing and validating interoperability solutions; an architectural framework for addressing interoperability problems from different viewpoints and at different levels of abstraction; a maturity model to evaluate and rank interoperability solutions with respect to distinguished quality criteria; and a working set of practical solutions and tools that can be applied to interoperability problems to date. IWEI is organized by the IFIP Working Group 5.8 on Enterprise Interoperability.

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## **THE PRACTICE OF ENTERPRISE MODELING**

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### **9TH IFIP WG 8.1. WORKING CONFERENCE, POEM 2016, SKÖVDE, SWEDEN, NOVEMBER 8-10, 2016, PROCEEDINGS**

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*Springer* This volume constitutes the proceedings of the 9th IFIP WG 8.1 Conference on the Practice of Enterprise Modeling held in November 2016 in Skövde, Sweden. The PoEM conference series started in 2008 and aims to provide a forum sharing knowledge and experiences between the academic community and practitioners from industry and the public sector. The 18 full papers and 9 short papers accepted were carefully reviewed and selected from 54 submissions and cover topics related to information systems development, enterprise modeling, requirements engineering, and process management. In addition, the keynote by Robert Winter on "Establishing 'Architectural Thinking' in Organizations" is also included in this volume.

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## **ENTERPRISE AND ORGANIZATIONAL MODELING AND SIMULATION**

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### **13TH INTERNATIONAL WORKSHOP, EOMAS 2017, HELD AT CAISE 2017, ESSEN, GERMANY, JUNE 12-13, 2017, SELECTED PAPERS**

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*Springer* This book constitutes the refereed proceedings of the 13th International Workshop on Enterprise and Organizational Modeling and Simulation, EOMAS 2017, held in Essen, Germany, in June 2017. The main focus of EOMAS is on the role, importance, and application of modeling and simulation within the extended organizational and enterprise context. The 12 full papers presented in this volume were carefully reviewed and selected from 26 submissions. They were organized in topical sections on formal methods, conceptual modeling, and enterprise engineering.

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## **HUMAN BENEFIT THROUGH THE DIFFUSION OF INFORMATION SYSTEMS DESIGN SCIENCE RESEARCH**

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### **IFIP WG 8.2/8.6 INTERNATIONAL WORKING CONFERENCE, PERTH, AUSTRALIA, MARCH 30 - APRIL 1, 2010, PROCEEDINGS**

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*Springer* This book constitutes the proceedings of the 2010 Joint International Working Conference of the International Federation for Information Processing Working Groups 8.2 and 8.6. Both working groups are part of IFIP Technical Committee 8, the technical committee addressing the field of Information Systems. IFIP WG 8.2, the Inter-tion of Information Systems and Organizations, was established in 1977. IFIP WG 8.6, Diffusion, Transfer and Implementation of Information Technology, was established in 1994. In accordance with their respective themes, both IFIP WG 8.2 and IFIP WG 8.6 have long had an interest in the human impact of information systems. In December 1998, they held a joint working conference in Helsinki, Finland, on the theme "Information Systems: Current Issues and Future Challenges." The two working groups' joint interest in and collaboration on research concerning the human side of IS is continued and extended through this joint working conference, held on the campus of Curtin University of Technology, from March 30 to April 1, 2010, in Perth, Western Australia. This conference, "Human Benefit Through the Diffusion of Information Systems Design Science Research," combines the traditional themes of the two working groups with the growing interest within the IS research field in the area of design science research.

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## **ONTOLOGY, CONCEPTUALIZATION AND EPISTEMOLOGY FOR INFORMATION SYSTEMS, SOFTWARE ENGINEERING AND SERVICE SCIENCE**

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### **4TH INTERNATIONAL WORKSHOP, ONTOSE 2010, HELD AT CAISE 2010, HAMMAMET, TUNISIA, JUNE 7-8, 2010, REVISED SELECTED PAPERS**

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*Springer* This book constitutes the post-proceedings of the International Workshop on Ontology, Conceptualization and Epistemology for Information Systems, Software Engineering and Service Sciences (ONTOSE 2010), held at the CAiSE 2010 conference in

Hammamet, Tunisia, June, 2010. The 10 papers presented in this volume were carefully revised and selected from 25 submissions. They are grouped in sections on enterprise and service architectures, ontology applications, ontology visualization and query expansion, and ontologies for services.

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## **SERVICE-ORIENTED COMPUTING. ICSOC/SERVICEWAVE 2009 WORKSHOPS**

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### **INTERNATIONAL WORKSHOPS, ICSOC/SERVICEWAVE 2009, STOCKHOLM, SWEDEN, NOVEMBER 23-27, 2009, REVISED SELECTED PAPERS**

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*Springer Annotation.* This book constitutes the refereed proceedings of the International Workshops on Service-Oriented Computing, ICSOC/ServiceWave 2009, held in Stockholm, Sweden, in November 2009. The book includes papers of workshops on trends in enterprise architecture research (TEAR 2009), SOA, globalization, people, and work (SG-PAW), service oriented computing in logistics (SOC-LOG), non-functional properties and service level agreements management in service oriented computing (NFPSLAM-SOC 09), service monitoring, adaptation and beyond (MONA+), engineering service-oriented applications (WESOA09), and user-generated services (UGS2009). The papers are organized in topical sections on business models and architecture; service quality and service level agreements track; and service engineering track.

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## **GOVERNANCE OF THE EXTENDED ENTERPRISE**

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### **BRIDGING BUSINESS AND IT STRATEGIES**

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*John Wiley & Sons Discover* how to implement an effective IT governance structure for the long-term success of an extended enterprise. IT is no longer an enabler of corporate strategy, it is now the key element of corporate strategy. Governance of the Extended Enterprise explores how some of the world's most successful enterprises have integrated information technology with business strategies, culture, and ethics to optimize information value, attain business objectives, and capitalize on technologies in highly competitive environments. Providing a process for change and a governance model, Governance of the Extended Enterprise encompasses the latest emerging practices from major information and knowledge businesses, providing a major new knowledge resource for enterprises. It also opens up new avenues of practice in strategy setting, enterprise management, control assessment, and risk management. From sales-force automation to workgroup collaboration, forms processing to knowledge management systems, customer service to technical support, Governance of the Extended Enterprise will help readers improve IT governance in all facets of their organization.

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## **SERVICE-ORIENTED COMPUTING - ICSOC 2008 WORKSHOPS**

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### **ICSOC 2008, INTERNATIONAL WORKSHOPS, SYDNEY, AUSTRALIA, DECEMBER 1ST, 2008. REVISED SELECTED PAPERS.**

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*Springer* This book constitutes the thoroughly refereed papers presented at five international workshops held in conjunction with the 6th International Conference on Service-Oriented Computing, ICSOC 2008, in Sydney, Australia, in December 2008. The volume contains 41 reviewed and improved papers presented at the 4th International Workshop on Engineering Service-Oriented Applications (WESOA 2008), the Second International Workshop on Web APIs and Services Mashups (Mashups 2008), the First International Workshop on Quality-of-Service Concerns in Service Oriented Architectures (QoSCSOA 2008), the First Workshop on Enabling Service Business Ecosystems (ESBE 2008), and the Third International Workshop on Trends in Enterprise Architecture Research (TEAR 2008). The papers offer a wide range of hot topics in service-oriented computing: management and analysis of SOA processes; development of mashups; QoS and trust models in service-oriented multi-agent systems; service ecosystems, service standardization, and evolutionary changes of Web services; governance aspects of SOA, enterprise models and architectures.

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## **HANDBOOK OF RESEARCH ON INNOVATIONS IN SYSTEMS AND SOFTWARE ENGINEERING**

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*IGI Global* Professionals in the interdisciplinary field of computer science focus on the design, operation, and maintenance of computational systems and software. Methodologies and tools of engineering are utilized alongside the technological advancements of computer applications to develop efficient and precise databases of information. The Handbook of Research on Innovations in Systems and Software Engineering combines relevant research from all facets of computer programming to provide a comprehensive look at the challenges and changes in the field. With information spanning topics such as design models, cloud computing, and security, this handbook is an essential reference source for academicians, researchers, practitioners, and students interested in the development and design of improved and effective technologies.

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## **GLOBAL BUSINESS EXPANSION: CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS**

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### **CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS**

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*IGI Global* As businesses seek to compete on a global stage, they must be constantly aware of pressures from all levels: regional, local, and worldwide. The organizations that can best build advantages in diverse environments achieve the greatest success. Global Business Expansion: Concepts, Methodologies, Tools, and Applications is a comprehensive reference source for the latest scholarly material on the emergence of new ideas and opportunities in various markets and provides organizational leaders with the tools they need to be successful. Highlighting a range of pertinent topics such as market entry strategies, transnational organizations, and competitive advantage, this multi-volume book is ideally designed for researchers, scholars, business executives and professionals, and graduate-level business students.

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## SOFTWARE BUSINESS

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### 11TH INTERNATIONAL CONFERENCE, ICSOB 2020, KARLSKRONA, SWEDEN, NOVEMBER 16-18, 2020, PROCEEDINGS

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*Springer Nature* This book constitutes the refereed proceedings of the 11th International Conference on Software Business, ICSOB 2020, which was held during November 16-18, 2020. The conference was originally planned to take place in Karlskrona, Sweden, but changed to an online format due to the COVID-19 pandemic. The 13 full papers and 5 short papers presented were carefully reviewed and selected from 39 submissions. They deal with a range of topics including practices for engineering and marketing software-intensive products, extracting business value from machine learning based software components, ethical considerations of the software business, software ecosystems, and pedagogy of teaching entrepreneurship and software business.

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## STRATEGIC ENTERPRISE ARCHITECTURE MANAGEMENT

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### CHALLENGES, BEST PRACTICES, AND FUTURE DEVELOPMENTS

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*Springer Science & Business Media* 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.

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## SECURITY MANAGEMENT IN MOBILE CLOUD COMPUTING

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*IGI Global* Mobile Cloud Computing (MCC) has experienced explosive growth and is expected to continue to rise in popularity as new services and applications become available. As with any new technology, security issues continue to be a concern and developing effective methods to protect sensitive information and data on the cloud is imperative. Security Management in Mobile Cloud Computing explores the difficulties and challenges of securing user data and information on mobile cloud platforms. Investigating a variety of protocols and architectures that can be used to design, create, and develop security mechanisms, this publication is an essential resource for IT specialists, researchers, and graduate-level students interested in mobile cloud computing concepts and security.

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## RESOURCE MANAGEMENT AND EFFICIENCY IN CLOUD COMPUTING ENVIRONMENTS

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*IGI Global* Today's advancements in technology have brought about a new era of speed and simplicity for consumers and businesses. Due to these new benefits, the possibilities of universal connectivity, storage and computation are made tangible, thus leading the way to new Internet-of Things solutions. Resource Management and Efficiency in Cloud Computing Environments is an authoritative reference source for the latest scholarly research on the emerging trends of cloud computing and reveals the benefits cloud paths provide to consumers. Featuring coverage across a range of relevant perspectives and topics, such as big data, cloud security, and utility computing, this publication is an essential source for researchers, students and professionals seeking current research on the organization and productivity of cloud computing environments.

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## ENTERPRISE ARCHITECTURE

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### CREATING VALUE BY INFORMED GOVERNANCE

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*Springer Science & Business Media* This book is positioned as a first in a series of books on enterprise architecture needed for a Master of Enterprise Architecture program, and is targeted both at university students and practitioners with a drive to increase their understanding of these fields. As an introductory book, this book aims to explore the concept of enterprise architecture. At first glance, writing such an introductory book might seem as a straight forward task of setting up a structure and filling in "the blanks." However, writing this book turned out to be a pleasant journey of discovery. Based on our past experiences, each of us had a clear understanding of enterprise architecture, based on several years of experience and insight in the field. However, when we started writing this book, and each of us exposed our individual understandings, it became apparent that our understanding of the field differed in several ways. This prompted several discussions leading to an abundance of new insights. Without exception, these discussions took place in a pleasant and open atmosphere, fueled by our shared drive for understanding and increased insight. We are now even more convinced than before, that the field of enterprise architecture is a true multi-disciplinary profession. In the resulting book, we would like to share our insights, while also hoping to continue our discussions, now also involving you as a reader. We also realize that the journey is still far from complete. While this introductory book provides an overview of the field of enterprise architecture from the perspective of our insights, many aspects need further refinement.

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## STRATEGIC IT MANAGEMENT

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### A TOOLKIT FOR ENTERPRISE ARCHITECTURE MANAGEMENT

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*Springer Science & Business Media* For you as an IT manager, changes in business models and fast-paced innovation and product lifecycles pose a big challenge: you are required to anticipate the impact of future changes, and to make rapid decisions backed up by solid facts. To be successful you need an overall perspective of how business and IT interact. What you need is a toolkit, enabling you

to manage the enterprise from a helicopter viewpoint while at the same time accommodating quite detailed aspects of processes, organization, and software lifecycles. Strategic IT management embraces all the processes required to analyze and document an enterprise's IT landscape. Based on the experience of many projects and long discussions with both customers and academic researchers, Inge Hanschke provides you with a comprehensive and practical toolkit for the strategic management of your IT landscape. She takes a holistic view on the management process and gives guidelines on how to establish, roll out, and maintain an enterprise IT landscape effectively. She shows you how to do it right first time - because often enough there's no second chance. She tells you how to tidy up a IT patchworks - the first step towards strategic management - and she gives you advice on how to implement changes and maintain the landscape over time. The book's structure reflects the patterns that exist in strategic IT management from strategic planning to actual implementation. The presentation uses many checklists, guidelines, and illustrations, which will help you to immediately apply the content. So, if you are a CIO, an IT manager, a business manager, or an IT consultant, this is the book from which you'll benefit in most daily work situations.

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### **TOGAF® VERSION 9.1**

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*Van Haren* For trainers free additional material of this book is available. This can be found under the "Training Material" tab. Log in with your trainer account to access the material. TOGAF is a framework - a detailed method and a set of supporting tools - for developing an enterprise architecture, developed by members of The Open Group Architecture Forum. TOGAF Version 9.1 is a maintenance update to TOGAF 9, addressing comments raised since the introduction of TOGAF 9 in 2009. It retains the major features and structure of TOGAF 9, thereby preserving existing investment in TOGAF, and adds further detail and clarification to what is already proven. It may be used freely by any organization wishing to develop an enterprise architecture for use within that organization (subject to the Conditions of Use). This Book is divided into seven parts: Part I - Introduction This part provides a high-level introduction to the key concepts of enterprise architecture and in particular the TOGAF approach. It contains the definitions of terms used throughout TOGAF and release notes detailing the changes between this version and the previous version of TOGAF. Part II - Architecture Development Method This is the core of TOGAF. It describes the TOGAF Architecture Development Method (ADM) a step-by-step approach to developing an enterprise architecture. Part III - ADM Guidelines & Techniques This part contains a collection of guidelines and techniques available for use in applying TOGAF and the TOGAF ADM. Part IV - Architecture Content Framework This part describes the TOGAF content framework, including a structured metamodel for architectural artifacts, the use of re-usable architecture building blocks, and an overview of typical architecture deliverables. Part V - Enterprise Continuum & Tools This part discusses appropriate taxonomies and tools to categorize and store the outputs of architecture activity within an enterprise. Part VI - TOGAF Reference Models This part provides a selection of architectural reference models, which includes the TOGAF Foundation Architecture, and the Integrated Information Infrastructure Reference Model (III-RM). Part VII Architecture Capability Framework This section looks at roles, Governance, compliance skills and much more practical guidance

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### **BUSINESS STRATEGY AND APPLICATIONS IN ENTERPRISE IT GOVERNANCE**

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*IGI Global* Within the IT-related business domain, it is important to advance theory building and practices regarding management and governance issues. Business Strategy and Applications in Enterprise IT Governance emphasizes how organizations enable both businesses and IT people to execute their responsibilities in support of business/IT alignment and the creation of business value from IT enabled corporation investments. This publication distributes leading research that is both academically executed and relevant for practice in the professional IT and business community.

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### **HANDBOOK ON ENTERPRISE ARCHITECTURE**

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*Springer Science & Business Media* This handbook is about methods, tools and examples of how to architect an enterprise through considering all life cycle aspects of Enterprise Entities. It is based on ISO15704:2000, or the GERAM Framework. A wide audience is addressed, as the handbook covers methods and tools necessary to design or redesign enterprises, as well as those necessary to structure the implementation into manageable projects.

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### **CORPORATE ENVIRONMENTAL MANAGEMENT INFORMATION SYSTEMS: ADVANCEMENTS AND TRENDS**

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#### **ADVANCEMENTS AND TRENDS**

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*IGI Global* "This book summarizes the state of the art in the emergent field of Corporate Environmental Management Information Systems, showing researchers, managers, engineers and information technology specialists how to develop and implement effective CEMIS"--Provided by publisher.

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### **ENTERPRISE BUSINESS ARCHITECTURE**

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#### **THE FORMAL LINK BETWEEN STRATEGY AND RESULTS**

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*CRC Press* A critical part of any company's successful strategic planning is the creation of an Enterprise Business Architecture (EBA) with its formal linkages. Strategic research and analysis firms have recognized the importance of an integrated enterprise architecture and they have frequently reported on its increasing value to successful companies. Enterpr

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### **ADVANCES IN GOVERNMENT ENTERPRISE ARCHITECTURE**

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*IGI Global* 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.