# Architecture Principles Cornerstones Enterprise Engineering

Enterprise ModelingEnterprise and Organizational Modeling and SimulationDigital EnterprisesAdvanced Digital Architectures for Model-Driven Adaptive EnterprisesHandbook of Research on Enterprise 2.0: Technological, Social, and Organizational DimensionsEnterprise Design FundamentalsEnterprise OntologyArchitecture PrinciplesFoundations of Enterprise Governance and Enterprise EngineeringD & B Consultants DirectoryDisadvantaged Business (DBE), State Woman Business Enterprise (SWBE), State Minority Business Enterprise (SMBE) List, and ... Disabled Veteran Business Enterprise (DVBE) ListPracticing Enterprise Governance and Enterprise EngineeringNational Directory of Minority-owned Business FirmsDisadvantaged Business (DB) and Woman Business Enterprise (WBE) List and ... Disabled Veteran Business Enterprise (DVBE) ListDisadvantaged Business (DB) and Woman Business Enterprise (WBE) ListDisadvantaged Business Enterprise (DBE) ListE-businessDisadvantaged Business Enterprise (DBE), State Woman Business Enterprise (SWBE), State Minority Business Enterprise (SMBE) List, and ... Disabled Veteran Business Enterprise (DVBE) ListCornerstoneInternational Cornerstone Florida Janis Stirna Robert Pergl Henderik A. Proper Kulkarni, Vinay Cruz-Cunha, Maria Manuela Jan L. G. Dietz Jan L. G. Dietz Danny Greefhorst Jan A.P. Hoogervorst Jan A.P. Hoogervorst Brian Stanford-Smith

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this book offers practical advice on managing enterprise modeling em projects and facilitating participatory em sessions modeling activities often involve groups of people and models are created in a participatory way ensuring that this is done efficiently requires dedicated individuals who know how to organize modeling projects and sessions how to manage discussions during these sessions and what aspects influence the success and efficiency of modeling in practice the book also includes a summary of the theoretical background to em although participatory modeling can also be used in conjunction with other methods that are not made for em such as those made for goal oriented requirements engineering and information systems analysis the first four chapters present an overview of enterprise modeling from various viewpoints including methods processes and organizational challenges providing a background for those that need to refresh their basic knowledge the next six chapters form the core of the book and detail the roles and competences needed in an em project typical stakeholder behaviors and how to handle them tools and methods for managing participatory modeling and facilitation and how to train modeling experts for these social aspects of modeling lastly a concluding chapter presents a summary and an outlook on current research in participatory em this book is intended for anybody who wants to learn more about how to facilitate participatory modeling in practice and how to set up and carry out em projects it does not require any in depth knowledge about specific em methods and tools and can be used by students and lecturers for courses on participatory modeling and by practitioners wanting to extend their knowledge of social and organizational topics to become an experienced facilitator and em project manager

this book constitutes the refereed proceedings of the 12th international workshop on enterprise and organizational modeling and simulation eomas 2016 held in ljubljana slovenia in june 2016 the 12 full papers presented in this volume were carefully reviewed and selected from 26 submissions they were organized in topical sections on formal approaches and human centric approaches

this book explores different aspects of and provides concrete suggestions to meet the three main challenges for becoming a digital enterprise the transition to the digital age the emergence of service ecosystems and the growing role of data as a key underlying resource as a result of these intertwined and mutually amplifying trends today s enterprises are confronted with several challenges that profoundly impact their design from the definitions of products and services offered to their clients via the business processes that deliver these products and services to the underlying it infrastructure the contributions which are written by leading enterprise architecture researchers and managers of large corporations cover four key aspects which form each one part of the book part i presents experiences how different enterprises currently already need to embrace and exploit new challenges like blockchain customer centric services or value co creation networks part ii looks at the need for a new design logic i e the need for new ways of thinking regarding the design of enterprises part iii is concerned with the coordination needed among different stakeholders of the ensuing continuous transformations part iv eventually reflects on the ongoing consequences for enterprise modeling as used to capture both the current affairs of an enterprise as well as design study its possible future affairs the target audience of this book are both master and phd level students who want to gain insights into key aspects of the challenges confronting digital enterprises as well as enterprise architects and information managers working in enterprises that are on their way to become digital

the five digital forces mobility and pervasive computing cloud big data artificial intelligence and robotics and social media are poised to bring great academic and industrial breakthroughs all stakeholders want to understand how to best harness these forces to their advantage while literature exists for understanding each force independently there is a lack of knowledge on how to utilize all the forces together to realize future enterprises advanced digital architectures for model driven adaptive enterprises is an essential reference source that explores the potential in unifying the five digital forces to achieve increased levels of agility efficiency and scale featuring coverage on a wide range of topics including socio technical systems adaptive architectures and enterprise modeling this book is ideally designed for managers executives programmers designers computer engineers entrepreneurs tool builders digital practitioners researchers academicians ands students at the graduate level

workplace technology is evolving at an accelerated pace driving innovation productivity and efficiency to exceedingly high levels businesses both small and large must keep up with these changes in order to compete effectively with fellow enterprises the handbook of research on

enterprise 2 0 technological social and organizational dimensions collects the most recent developments in evaluating the technological organizational and social dimensions of modern business practices in order to better foster advances in information exchange and collaboration among networks of partners and customers this crucial reference supports managers and business professionals as well as members of academia it specialists and network developers in enhancing business practices and obtaining competitive advantage

this textbook explains the fundamentals of enterprise design it emphasizes two separations of concerns when re designing enterprises to keep the work intellectually manageable the first one is between function and construction thus between the enterprise business and the enterprise organisation the second one is between the essential model of the organisation the ontology of the enterprise and the implementation model with these two intellectual tools it is possible to conceive and put into effect any change in a manageable and responsible way to this end the book is divided into three parts introduction theories and applications part i contains the three introductory chapters in chapter 1 the reader is introduced to the discipline of enterprise engineering in which a design oriented view is taken toward organisations chapter 2 discusses the often confused distinction between enterprise engineering and enterprise architecture and chapter 3 introduces enterprise design as one of the conceptual pillars of enterprise engineering next part ii outlines the constituting theories of enterprise design chapter 4 first provides an overview of all enterprise engineering theories and their position in a clarifying framework then chapters 5 through 10 contain extended summaries of the theories that underly the notion of enterprise design every chapter is divided in three parts foundations elaborations and discussions eventually part iii is about the application of the theories chapter 11 contains an extensive description of the demo design and engineering methodology for organisations methodology specifically of the dao method which guides the re design of enterprises in chapters 12 to 14 exercises are presented and discussed for the use of demo to the re design of enterprises these exercises in organisational redesign and digital transformation are particularly suited as course material in chapter 15 practical applications of demo in various industrial areas are reported in addition to a solid theoretical presentation of enterprise design this book also contains many exercises and examples of its practical application this combination makes the book perfectly suited for courses on enterprise design and enterprise engineering including demo as the principal methodology in enterprise engineering

enterprise ontology is one of the conceptual pillars of enterprise engineering next to enterprise design and enterprise governance together accomplishing the goals of intellectual manageability organisational concinnity and social devotion by revealing the essence of an enterprise s organisation enterprise ontology addresses business processes data and rules in a fundamental and truly integrated way in addition it provides deep insight into and broad overview over complex organisational transformations the book is divided into three parts part i is an introduction in enterprise engineering and enterprise ontology part ii explores the theories underlying enterprise ontology explaining the foundations of each theory the elaborations in practical methods and techniques and the relationships with other comparable approaches part iii presents the practical application of the theories it includes a comprehensive summary of the demo methodology and the demo specification language as well as exercises and applications of demo in various business areas it also features a chapter on combining demo with comparable approaches to modelling business processes data and rules to the benefit of the latter this second edition comprises two major improvements driven by increased theoretical precision and further practical experience with demo one is the clear separation between documents or data sets and the files that carry them the other one is the re positioning of the input data in the action rules discussing the theoretical foundations of enterprise ontology and its practical applications in equal measure this book is the principal textbook in courses on enterprise engineering since it unites elements from management science and information systems engineering it is also relevant to students and professionals in either field

enterprises from small to large evolve continuously as a result their structures are transformed and extended continuously without some means of control such changes are bound to lead to an overly complex uncoordinated and heterogeneous environment that is hard to manage and hard to adapt to future changes enterprise architecture principles provide a means to direct transformations of enterprises as a consequence architecture principles should be seen as the cornerstones of any architecture in this book greefhorst and proper focus on the role of architecture principles they provide both a theoretical and a practical perspective on architecture principles the theoretical perspective involves a brief survey of the general concept of principle as well as an analysis of different flavors of principles architecture principles are regarded as a specific class of normative principles that direct the design of an enterprise from the definition of its business to its supporting it the practical

perspective on architecture principles is concerned with an approach to the formulation of architecture principles as well as their actual use in organizations to illustrate their use in practice several real life cases are discussed an application of architecture principles in togaf is included and a catalogue of example architecture principles is provided with this broad coverage the authors target students and researchers specializing in enterprise architecture or business information systems as well as practitioners who want to understand the foundations underlying their practical daily work

this book outlines the important foundational insights for enterprise governance and enterprise engineering which are obviously provided by the social and organization sciences but also by other sciences such as philosophy and information technology it presents an employee centric theory of organization in order to secure enterprise performance and also to comply with moral considerations about society and human individuals this is necessary as prescriptions based on best practices or the best managed companies are often merely anecdotal faddish or controversial and based on unsubstantiated pseudo theories the book consists of four main chapters the first of which summarizes the importance of foundational insights for enterprises and explains the mutual relationships between the basic elements of enterprise governance and enterprise engineering next chapter 2 explains the necessary philosophical foundations concerning knowledge truth language and human existence subsequently chapter 3 describes the ontological foundation and the nature of society and enterprises as understanding their characteristics is a prerequisite for understanding and designing enterprises finally chapter 4 approaches ideological foundations as beliefs and convictions as they create specific requirements for the design of enterprises in this way the book covers all the cornerstones of the employee centric theory of organization drawing on foundational insights the book is mainly intended for students specializing in areas such as business administration management and organization science governance and enterprise and information systems design however professionals working in these areas will also benefit from the book as it allows them to gain a deeper understanding of the theoretical foundations of their work and will thus help them to avoid strategic failures due to a lack of coherence and consistency between the various parts of their organization

this book introduces explains and illustrates the theories concepts and methods needed for sound enterprise engineering these are based on

foundational insights specifically those concerning the employee centric theory of organization which are put into practice by coherently and consistently applying them to enterprise design and change the book consists of five main chapters the first of which emphasizes the importance of linking foundational insights with the enterprise engineering design science for practicing them in enterprise design within the scope of enterprise governance concerned with enterprise change chapter 2 summarizes the necessary philosophical ontological and ideological foundations of enterprise design and change subsequently chapter 3 outlines essential aspects of enterprise change and describes the relation between enterprise governance and the process of enterprise design while chapter 4 details the enterprise engineering design science and the actual enterprise design process its various perspectives and both its intermediate and final results lastly chapter 5 illustrates in detail the application of all the process steps in a single extensive example in this way the book shows how all the cornerstones of enterprise design and change as well as the employee centric theory of organization can be applied the book is mainly intended for students in areas such as business administration management and organization science governance and enterprise and information systems design however professionals working in these areas will also benefit from the book as it provides them with all the elements needed for engineering enterprise design and details their application

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