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Building Sustainable Information Systems
Methods, Concepts, Case Studies and Standards
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*Dod
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An update to

the 1st Edition, the 2nd Edition of the Enterprise Architecture Sourcebook Volume 1 has been completely revised and updated. It addresses twelve of the most popular commercial, government, and defense-related architecture frameworks and the two standard architecture development approaches: product-centric and data-centric. It provides a comprehensive overview of the current

state of architecture practice.

A GUIDE TO APPLYING SYSTEM ENGINEERING TO DEVELOP INTEGRATED EXECUTABLE ARCHITECTURES

IGI Global
This book contains all refereed papers that were accepted to the second edition of the « Complex Systems Design & Management » (CSDM 2011) international conference that took

place in Paris (France) from December 7 to December 9, 2011. (Website: <http://www.csdm2011.csdm.fr/>). These proceedings cover the most recent trends in the emerging field of complex systems sciences & practices from an industrial and academic perspective, including the main industrial domains (transport, defense & security, electronics, energy & environment, e-services),

scientific & technical topics (systems fundamentals, systems architecture & engineering, systems metrics & quality, systemic tools) and system types (transportation systems, embedded systems, software & information systems, systems of systems, artificial ecosystems). The CSDM 2011 conference is organized under the guidance of the CESAMES

non-profit organization (<http://www.cesames.net/>).
DoD Architecture Framework
Springer Nature
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 .
[Advancing Research in Information and Communication Technology](#)
CRC Press
The first Enterprise Architecture

book that compares the 14 most popular Enterprise Architecture Frameworks in the world. A unique book for CIO's, Enterprise Architects and all others interested in EA. Service Science and Knowledge Innovation John Wiley & Sons Information Systems (IS) as a discipline draws on diverse areas including, technology, organisational theory, management and social

science. The field is recognized as very broad and encompassing many themes and areas. However, the development of artefacts, or information systems development (ISD), in the broadest sense, is a central concern of the discipline. Significantly, ISD impacts on the organisational and societal contexts through the use of the artefacts constructed by the development.

Today, that impact also needs to be evaluated in terms of its effects on the environment. Sustainable, or "green," IT is a catch-all term used to describe the development, manufacture, management, use and disposal of ICT in a way that minimizes damage to the environment. As a result, the term has many different meanings, depending on the role assumed in the life span of the ICT artefact. The theme of the

proposed work is to critically examine the whole range of issues around ISD from the perspective of sustainability. Sustainable IT is an emerging theme in academic research and industry practice in response to an individual concern for the environment and the embryonic regulatory environments being enacted globally to address the environmental impact of ICT. In this work

we intend to bring together in one volume the diverse research around the development of sustainable IS. Artech House The rapid evolution of technical capabilities in the systems engineering (SE) community requires constant clarification of how to answer the following questions: What is Systems Architecture? How does it relate to Systems Engineering? What is the

role of a Systems Architect? How should Systems Architecture be practiced? A perpetual reassessment of concepts and practices is taking place across various systems disciplines at every level in the SE community. Architecture and Principles of Systems Engineering addresses these integral issues and prepares you for changes that will be occurring for years to come. With their

simplified discussion of SE, the authors avoid an overly broad analysis of concepts and terminology. Applying their substantial experience in the academic, government, and commercial R&D sectors, this book is organized into detailed sections on: Foundations of Architecture and Systems Engineering Modeling Languages, Frameworks, and Graphical Tools Using Architecture Models in

Systems Analysis and Design Aerospace and Defense Systems Engineering Describing ways to improve methods of reasoning and thinking about architecture and systems, the text integrates concepts, standards, and terminologies that embody emerging model-based approaches but remain rooted in the long-standing practices of engineering, science, and mathematics.

With an emphasis on maintaining conceptual integrity in system design, this text describes succinct practical approaches that can be applied to the vast array of issues that readers must resolve on a regular basis. An exploration of the important questions above, this book presents the authors' invaluable experience and insights regarding the path to the future, based on what they

have seen work through the power of model-based approaches to architecture and systems engineering. <i>Digital Business, Technology, Decision Support, Management</i> Springer 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
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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. Systems Engineering in Context Springer Science & Business Media This book contains the proceedings of two long-running events held along with the CAiSE conference relating to the areas of enterprise, business-process and information systems modeling: * the 21st International Conference on Business

Process Modeling, Development and Support, BPMDS 2020, and * the 25th International Conference on Exploring Modeling Methods for Systems Analysis and Development, EMMSAD 2020. The conferences were planned to take place in Grenoble, France, during June 8-9, 2020. They were held virtually due to the COVID-19 pandemic. For BPMDS 13 full papers and 1 short paper were carefully

reviewed and selected for publication from a total of 30 submissions; for EMMSAD 11 full papers and 4 short papers were accepted from 29 submissions. The papers were organized in topical sections named as follows: BPMDS: Business process execution and monitoring, BPM applications in industry and practice, planning and scheduling in business

processes, process mining, process models and visualizations EMMSAD: Requirements and method engineering, enterprise and business modeling, software-related modeling, domain-specific modeling, evaluation-related research. Enterprise, Business-Process and Information Systems Modeling Future Strategies Inc. This book investigates

solutions incorporated by architecture boards in global enterprises to resolve issues and mitigate related architecture risks, while also proposing and implementing an adaptive integrated digital architecture framework (AIDAF) and related models and approaches/platforms, which can be applied in companies to promote IT strategies using cloud/mobile IT/digital IT.

The book is divided into three main parts, the first of which (Chapters 1-2) addresses the background and motivation for AIDAF aligned with digital IT strategies. The second part (Chapter 3) provides an overview of strategic enterprise architecture (EA) frameworks for digital IT, elaborates on the essential elements of EA frameworks in the digital IT era, and advocates using AIDAF,

models for architecture assessment/ri sk management, knowledge management on digital platforms. In turn, the third part (Chapters 4-7) demonstrates the application and benefits of AIDAF and related models, as shown in three case studies. "I found this book to be a very nice contribution to the EA community of practice. I can recommend this book as a textbook for digital IT

strategists/practitioners, EA practitioners, students in universities and graduate schools." (From the Foreword by Scott A. Bernard) "In this new age of the digital information society, it is necessary to advocate a new EA framework. This book provides state-of-the-art knowledge and practices about EA frameworks beneficial for IT practitioners, IT strategists, CIO, IT architects,

and even students. It serves as an introductory textbook for all who drive the information society in this era.”(From the Foreword by Jun Murai)
Enterprise Architecture for Global Companies in a Digital IT Era
Springer
This book presents a contemporary view of the role of information quality in information fusion and decision making, and provides a formal foundation

and the implementation strategies required for dealing with insufficient information quality in building fusion systems for decision making. Information fusion is the process of gathering, processing, and combining large amounts of information from multiple and diverse sources, including physical sensors to human intelligence reports and social media. That data and information

may be unreliable, of low fidelity, insufficient resolution, contradictory, fake and/or redundant. Sources may provide unverified reports obtained from other sources resulting in correlations and biases. The success of the fusion processing depends on how well knowledge produced by the processing chain represents reality, which in turn depends on how adequate data are, how

good and adequate are the models used, and how accurate, appropriate or applicable prior and contextual knowledge is. By offering contributions by leading experts, this book provides an unparalleled understanding of the problem of information quality in information fusion and decision-making for researchers and professionals in the field. *Enterprise Interoperability* Springer

Science & Business Media
This book constitutes the refereed proceedings of the 16th IFIP WG 8.1 International Conference on Informatics and Semiotics in Organisations, ICISO 2015, held in Toulouse, France, in March 2015. The 21 revised papers presented were carefully reviewed and selected from 46 submissions. The papers are organized in the following

topical sections:
organisational semiotics: theory and concepts;
organisational semiotics and applications;
information systems and services;
complex system modeling and simulation;
and innovation and organisational learning.
IFIP TC 5 International Conference, EAI2N 2010, Held as Part of WCC 2010, Brisbane, Australia, September 20-23, 2010,

<p>Proceedings DoD Architecture FrameworkA Guide to Applying System Engineering to Develop Integrated Executable Architectures DoD Architecture FrameworkA Guide to Applying System Engineering to Develop Integrated Executable ArchitecturesC reatespace Independent Pub Methodology of Complex Activity Springer This important text provides</p>	<p>a single point of reference for state-of- the-art cloud computing design and implementatio n techniques. The book examines cloud computing from the perspective of enterprise architecture, asking the question; how do we realize new business potential with our existing enterprises? Topics and features: with a Foreword by Thomas Erl; contains contributions from an international selection of</p>	<p>preeminent experts; presents the state-of-the- art in enterprise architecture approaches with respect to cloud computing models, frameworks, technologies, and applications; discusses potential research directions, and technologies to facilitate the realization of emerging business models through enterprise architecture approaches; provides relevant</p>
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theoretical frameworks, and the latest empirical research findings.

Civil Aircraft Electrical Power System Safety Assessment

PediaPress Emerging Trends in ICT Security, an edited volume, discusses the foundations and theoretical aspects of ICT security; covers trends, analytics, assessments and frameworks necessary for performance analysis and

evaluation; and gives you the state-of-the-art knowledge needed for successful deployment of security solutions in many environments.

Application scenarios provide you with an insider's look at security solutions deployed in real-life scenarios, including but limited to smart devices, biometrics, social media, big data security, and crowd sourcing. Provides a

multidisciplinary approach to security with coverage of communication systems, information mining, policy making, and management infrastructures. Discusses deployment of numerous security solutions, including, cyber defense techniques and defense against malicious code and mobile attacks. Addresses application of security solutions in real-life scenarios in several environments,

such as social media, big data and crowd sourcing

DOD BUSINESS SYSTEMS MODERNIZATION IMPORTANT PROGRESS MADE IN ESTABLISHING FOUNDATIONAL ARCHITECTURE PRODUCTS AND INVESTMENT MANAGEMENT PRACTICES, BUT MUCH

WORK REMAINS : REPORT TO CONGRESSIO NAL COMMITTEES

Springer
This chapter discusses the problematic intersection of risk management, mission assurance, security, and information systems through the illustrative example of the United States (US) Department of Defense (DoD). A concise history of systems

security engineering (SSE) is provided with emphasis on recent revitalization efforts. Next, a review of established and emerging SSE methods, processes, and tools (MPT) frequently used to assess and manage critical shortfalls in the development and fielding of complex information-centric systems is provided. From this review, a common theme

emerges—the need for a holistic multidisciplinary approach that addresses people, processes, and technologies to manage system complexity, while providing cost-effective security solutions through the use of established systems engineering techniques. Multiple cases and scenarios that promote the discovery and shared understanding of security solutions for

complex systems by those trained in the art and science of systems engineering, information security, and risk management are demonstrated. *12th International Conference, BPMDS 2011, and 16th International Conference, EMMSAD 2011, Held at CAiSE 2011, London, UK, June 20-21, 2011. Proceedings* Springer Nature DoD Architecture Framework - A

Guide to Applying System Engineering to Develop Integrated, Executable Architectures discusses ways to choose the proper technique, tool, and process for your architecture study. Dr. Dam brings his insights from having applied the DoDAF to a variety of major DoD architectures and from many years of providing training courses on the DoDAF and its

predecessor, the C4ISR Architecture Framework. *Building Sustainable Information Systems* Springer This book develops and describes a general methodology that can be applied to any complex human activity (activity with a non-trivial, multi-level internal structure). The structural components of complex activities are considered, and their logical, cause-

and-effect, and process structures are functionally described. Considerable attention is paid to organization and management, uncertainties, and the lifecycles of activities, as well as the actors, subject matter, resources, knowledge, and methods involved. Several typical examples are used throughout the text to illustrate the implementation of common approaches involving the

functioning of work groups, organizational units, projects, and organizations in general: a retail bank, an aircraft manufacturer, a fire department, and a nuclear power plant. In addition, the book employs a system of connected technical models, in order to ensure that the results are of practical applicability for both experts on the ground and scholars engaged in research on

the general principles of how activities (practical, scientific, etc.) are organized or on the management of socio-technical systems.

Methods, Concepts, Case Studies and Standards in Business Process Management Notation CRC Press

There is a major effort underway in the area of network-centric operations that promises to redefine networking applications.

These applications have the potential to raise Enterprise operational efficiency to a whole new level. Following the successful invention of TCP/IP and the Internet, which have tremendous economic impacts on our society, the Department of Defense (DoD) is initiating a new IT revolution, based on Global Information Grid (GIG) model, with a focus on

performance outcomes of organizational adaptation, survival, and competence. To ignore this technological trend of converging business and process management would be to jeopardize our competitive edge. The emergence of Enterprise services has triggered a major paradigm shift in distributed computing: from Object-Oriented Architecture (OOA) to Service-Oriented Architecture

(SOA). As the need grows to incorporate and exchange information across wire-line and wireless networks, so grows the necessity to establish an infrastructure for high-distribution communities in a timely and safe manner. Network-Centric Service-Oriented Enterprise (NSCOE) is seen as heralding the next generation of mainstream Enterprise-business

information collaboration solution that can enforce information and decision superiority in the decentralized, loosely-coupled, and highly interoperable service environments. Network-Centric Service Oriented Enterprise establishes a system-of-systems (SoS) view of information technologies, offering a synergistic combination of data and information-processing

capacity upon an innovative networked-management framework. **Information and Software Technologies** Springer Examines what's new and updated in BPMN 2.0 and look at interchange, best practice, analytics, conformance, optimization, choreography from a technical perspective. Also addresses the business imperative for widespread adoption of the standard by examining

best practice guidelines, BPMN business strategy and the human interface including real-life case studies. Other chapters tackle the practical aspects of making BPMN model executable and the basic time-line analysis of a BPMN model. The Enterprise Architecture Sourcebook, Volume 1, Second Edition Newnes Enterprise Architecture, Integration, and Interoperability

and the Networked enterprise have become the theme of many conferences in the past few years. These conferences were organised by IFIP TC5 with the support of its two working groups: WG 5.12 (Architectures for Enterprise Integration) and WG 5.8 (Enterprise Interoperability), both concerned with aspects of the topic: how is it possible to architect and implement

businesses that are flexible and able to change, to interact, and use one another's services in a dynamic manner for the purpose of (joint) value creation. The original question of enterprise integration in the 1980s was: how can we achieve and integrate - formation and material flow in the enterprise? Various methods and reference models were developed or proposed -

ranging from tightly integrated monolithic system - architectures, through cell-based manufacturing to on-demand interconnection of businesses to form virtual enterprises in response to market opportunities.	Two camps have emerged in the endeavour to achieve the same goal, namely, to achieve interoperability between businesses (whereupon interoperability is the ability to exchange information in order to use	one another's services or to jointly implement a service). One school of researchers addresses the technical aspects of creating dynamic (and static) interconnections between disparate businesses (or parts thereof).
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