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HERRERA MCCARTY

[Trends in Enterprise Application Architecture](#) Springer Science & Business Media

As Service-Oriented Computing (SOC) gains a wider global acceptance, the need for understanding its life cycle becomes inevitable, not only for developers, but also for users. *Service Life Cycle Tools and Technologies: Methods, Trends and Advances* compiles the latest research on SOC life cycles, detailing methodologies and applications in this emerging field. The development of service-oriented applications not only depends on constructing service providers, but also composition and delivery. Service requesters, service providers, and

developers, alike, will benefit from the views and models in a service life cycle. This volume offers research that has been conducted in both industry and academia to address issues in the SOC domain, including service discovery, service composition, and service management. It serves as a vital reference for those on either side of the service field.

Executing SOA Springer Science & Business Media

Cloud Enterprise Architecture examines enterprise architecture (EA) in the context of the surging popularity of Cloud computing. It explains the different kinds of desired transformations the architectural blocks of EA undergo in light of this strategically significant convergence. Chapters cover each of the contributing architectures of EA-business, information, application, integration,

security, and technology-illustrating the current and impending implications of the Cloud on each. Discussing the implications of the Cloud paradigm on EA, the book details the perceptible and positive changes that will affect EA design, governance, strategy, management, and sustenance. The author ties these topics together with chapters on Cloud integration and composition architecture. He also examines the Enterprise Cloud, Federated Clouds, and the vision to establish the InterCloud. Laying out a comprehensive strategy for planning and executing Cloud-inspired transformations, the book: Explains how the Cloud changes and affects enterprise architecture design, governance, strategy, management, and sustenance Presents helpful information on next-generation Cloud computing Describes additional architectural types

such as enterprise-scale integration, security, management, and governance architectures. This book is an ideal resource for enterprise architects, Cloud evangelists and enthusiasts, and Cloud application and service architects. Cloud center administrators, Cloud business executives, managers, and analysts will also find the book helpful and inspirational while formulating appropriate mechanisms and schemes for sound modernization and migration of traditional applications to Cloud infrastructures and platforms.

Information Systems Reengineering for Modern Business Systems: ERP, Supply Chain and E-Commerce Management Solutions IGI Global

In the last ten years IT has brought fundamental changes to the way the world works. Not only has it increased the speed of operations and communications, but it has also undermined basic assumptions of traditional business models and increased the number of variables. Today, the survival of major corporations is challenged by a world-wide marketplace, international operations, outsourcing, global communities, a changing workforce, security threats, business continuity, web visibility, and customer expectations. Enterprises must constantly adapt or they will be unable to compete. Fred Cummins, an EDS Fellow, presents IT as a key enabler of the agile enterprise. He demonstrates how the convergence of key technologies—including SOA, BPM and emerging enterprise and data models—can be harnessed to transform the enterprise. Cummins mines his 25 years experience to provide IT leaders, as well as enterprise architects and management consultants, with the critical information, skills, and insights they need to partner with management and redesign the enterprise for continuous change. No other book puts IT at the center of this transformation, nor integrates these technologies for this purpose. Shows how to integrate and deploy critical technologies to foster agility. Details how to design an enterprise architecture that takes full advantage of SOA, BPM, business rules, enterprise information management, business models, and governance. Outlines IT's critical mission in providing an integration infrastructure and key services, while optimizing technology adoption throughout the enterprise. Illustrates concepts with examples and cases from large and small commercial enterprises. Shows how to create systems that recognize and respond to the need for change. Identifies the unique security issues that arise with SOA and shows how to deploy a framework of technologies and

processes that address them.

The Practitioner's Guide to Data Quality Improvement IGI Global

Collaborative Networks for a Sustainable World Aiming to reach a sustainable world calls for a wider collaboration among multiple stakeholders from different origins, as the changes needed for sustainability exceed the capacity and capability of any individual actor. In recent years there has been a growing awareness both in the political sphere and in civil society including the business sectors, on the importance of sustainability. Therefore, this is an important and timely research issue, not only in terms of systems design but also as an effort to borrow and integrate contributions from different disciplines when designing and/or engineering those systems. The discipline of collaborative networks especially, which has already emerged in many application sectors, shall play a key role in the implementation of effective sustainability strategies. PRO-VE 2010 focused on sharing knowledge and experiences as well as identifying directions for further research and development in this area. The conference - dressed models, infrastructures, support tools, and governance principles developed for collaborative networks, as important resources to support multi-stakeholder sustainable developments. Furthermore, the challenges of this theme open new research directions for CNs. PRO-VE 2010 held in St.

On the Move to Meaningful Internet Systems: OTM 2011 Workshops CRC Press

As organizations, businesses, and other institutions work to move forward during a new era of ubiquitous modern technology, new computing and technology implementation strategies are necessary to harness the shared knowledge of individuals to advance their organizations as a whole. Intelligent and Knowledge-Based Computing for Business and Organizational Advancements examines the emerging computing paradigm of Collective Intelligence (CI). The global contributions contained in this publication will prove to be essential to both researchers and practitioners in the computer and information science communities as these populations move toward a new period of fully technology-integrated business.

PHealth 2015 CRC Press

Within the framework of the Sixth I-ESA International Conference, supported by the INTEROP VLab (International Virtual Laboratory on Enterprise Interoperability, <http://www.interop-vlab.eu>), three workshops and a Doctoral Symposium

have been organized in order to strengthen some key topics related to interoperability for enterprise applications and software. The workshops were selected to complement the conference topics, leaving more time to researchers for brainstorming and then coming up, at the end of the workshops, with new research directions for the future. The goal of the workshop "Standards - a Foundation for Interoperability" is to increase awareness and understanding of interoperability standards as a fundamental need. The workshop "Use of MDI/SOA Concepts in Industry" promotes the application of MDI (Model-Driven Interoperability) combined with SOA (Services Oriented Architecture) and the associated technology (BPM, Enterprise Modeling, ontology, mediation, model transformation, etc.) in industry. The workshop on "Dynamic Management across Interoperating Enterprises" investigates the need for enhancements to current business management systems and processes to address the needs of global trading across enterprises utilizing the new service-oriented Internet. Finally, the Doctoral Symposium has given the opportunity for students involved in the preparation of their PhDs in this emerging area to present and discuss their research issues and ideas with senior researchers.

Handbook of Research on Architectural Trends in Service-Driven Computing CRC Press

Enterprise Architecture A to Z examines cost-saving trends in architecture planning, administration, and management. The text begins by evaluating the role of Enterprise Architecture planning and Service-Oriented Architecture (SOA) modeling. It provides an extensive review of the most widely-deployed architecture framework models, including The Open Group Architecture and Zachman Architectural Frameworks, as well as formal architecture standards. The first part of the text focuses on the upper layers of the architecture framework, while the second part focuses on the technology architecture. Additional coverage discusses Ethernet, WAN, Internet communication technologies, broadband, and chargeback models.

Business Modeling IGI Global

In the increasingly competitive corporate sector, businesses must examine their current practices to ensure business success. By examining their social, financial, and environmental risks, obligations, and opportunities, businesses can re-design their operations more effectively to ensure prosperity.

Sustainable Business: Concepts, Methodologies, Tools, and Applications is a vital reference source that explores the best practices that promote business sustainability, including examining how economic, social, and environmental aspects are related to each other in the company's management and performance. Highlighting a range of topics such as lean manufacturing, sustainable business model innovation, and ethical consumerism, this multi-volume book is ideally designed for entrepreneurs, business executives, business professionals, managers, and academics seeking current research on sustainable business practices.

Service Engineering IGI Global
Businesses must constantly adapt to a dynamically changing environment that requires choosing an adaptive and dynamic information architecture that has the flexibility to support both changes in the business environment and changes in technology. In general, information systems reengineering has the objective of extracting the contents, data structures, and flow of data and process contained within existing legacy systems in order to reconstitute them into a new form for subsequent implementation. *Information Systems Reengineering for Modern Business Systems: ERP, Supply Chain and E-Commerce Management Solutions* covers different techniques that could be used in industry in order to reengineer business processes and legacy systems into more flexible systems capable of supporting modern trends such as Enterprise Resource Planning (ERP), supply chain management systems and e-commerce. This reference book also covers other issues related to the reengineering of legacy systems, which include risk management and obsolescence management of requirements.

Handbook of Research on E-Services in the Public Sector: E-Government Strategies and Advancements Springer Science & Business Media

Service engineering is increasingly posing challenges to traditional software engineering methodologies including specification, modeling, architecture, and verification, just to name a few. On the other hand, the latest advancements in software engineering are continuously leveraged in Service Engineering research, especially in the design and implementation of service-oriented systems. Several mutual impacts between service engineering and software engineering could be observed in the last decade, and many research efforts have

been devoted to the field. However, in spite of the considerable efforts and significant contributions, few have attempted to summarize the research results systematically.

Digital Transformation of Enterprise Architecture IGI Global

Advanced approaches to software engineering and design are capable of solving complex computational problems and achieving standards of performance that were unheard of only decades ago. *Handbook of Research on Emerging Advancements and Technologies in Software Engineering* presents a comprehensive investigation of the most recent discoveries in software engineering research and practice, with studies in software design, development, implementation, testing, analysis, and evolution. Software designers, architects, and technologists, as well as students and educators, will find this book to be a vital and in-depth examination of the latest notable developments within the software engineering community.

SOA and Web Services Interface Design CRC Press

In *SOA and Web Services Interface Design*, data architecture guru James Bean teaches you how to design web service interfaces that are capable of being extended to accommodate ever changing business needs and promote incorporation simplicity. The book first provides an overview of critical SOA principles, thereby offering a basic conceptual summary. It then provides explicit, tactical, and real-world techniques for ensuring compliance with these principles. Using a focused, tutorial-based approach the book provides working syntactical examples - described by Web services standards such as XML, XML Schemas, WSDL and SOAP - that can be used to directly implement interface design procedures, thus allowing you immediately generate value from your efforts. In summary, *SOA and Web Services Interface Design* provides the basic theory, but also design techniques and very specific implementable encoded interface examples that can be immediately employed in your work, making it an invaluable practical guide to any practitioner in today's exploding Web-based service market. Provides chapters on topics of introductory WSDL syntax and XML Schema syntax, taking take the reader through fundamental concepts and into deeper techniques and allowing them to quickly climb the learning curve. Provides working syntactical examples - described by Web services standards such as XML, XML Schemas, WSDL and SOAP - that can be used to directly implement

interface design procedures. Real-world examples generated using the Altova XML Spy tooling reinforce applicability, allowing you to immediately generate value from their efforts.

Collaborative Networks for a Sustainable World Elsevier

The Expert, Practical Guide to Succeeding with SOA in the Enterprise In *Executing SOA*, four experienced SOA implementers share realistic, proven, "from-the-trenches" guidance for successfully delivering on even the largest and most complex SOA initiative. This book follows up where the authors' best-selling *Service-Oriented Architecture Compass* left off, showing how to overcome key obstacles to successful SOA implementation and identifying best practices for all facets of execution—technical, organizational, and human. Among the issues it addresses: introducing a services discipline that supports collaboration and information process sharing; integrating services with preexisting technology assets and strategies; choosing the right roles for new tools; shifting culture, governance, and architecture; and bringing greater agility to the entire organizational lifecycle, not just isolated projects. Executing SOA is an indispensable resource for every enterprise architect, technical manager, and IT leader tasked with driving value from SOA in complex environments. Coverage includes · Implementing SOA governance that reflects the organization's strategic and business focus · Running SOA projects successfully: practical guidelines and proven methodologies around service modeling and design · Leveraging reusable assets: making the most of your SOA repository · Enabling the architect to choose the correct tools and products containing the features required to execute on the SOA method for service design and implementation · Defining information services to get the right information to the right people at the right time · Integrating SOA with Web 2.0 and other innovative products and solutions · Providing highly usable human interfaces in SOA environments

Sustainable Business: Concepts, Methodologies, Tools, and Applications
Springer Science & Business Media
Annotation Current IT developments like competent-based development and Web services have emerged as new effective ways of building complex enterprise systems and providing enterprise allocation integration. However, there is still much that needs to be researched before service-oriented software engineering (SOSE) becomes a prominent source for enterprise system development.

Service-Oriented Software System Engineering: Challenges and Practices provides a comprehensive view of SOSE through a number of different perspectives.

[Handbook of Research on Enterprise Systems](#) John Wiley & Sons

"This book assists its readers in recommending formulation of ICT strategies for e-government implementation and maintenance from the perspective of acknowledging the importance of e-Governance for building institutions to achieve transparency and accountability, and eventually democratic governance"--Provided by publisher.

[Process-Centric Architecture for Enterprise Software Systems](#) Springer

This book constitutes the refereed proceedings of the 23rd International Conference on Advanced Information Systems Engineering, CAiSE 2011, held in London, UK, in June 2011. The 42 revised full papers and 5 revised short papers presented were carefully reviewed and selected from 320 submissions. In addition the book contains the abstracts of 2 keynote speeches. The contributions are organized in topical sections on requirements; adaptation and evolution; model transformation; conceptual design; domain specific languages; case studies and experiences; mining and matching; business process modelling; validation and quality; and service and management.

[Cloud Enterprise Architecture](#) Springer Science & Business Media

In 2007 INTEROP-VLab defined Enterprise Interoperability as "the ability of an enterprise system or application to interact with others at a low cost with a flexible approach". Enterprise Interoperability VI brings together a peer reviewed selection of over 40 papers, ranging from academic research through case studies to industrial and administrative experience of interoperability. It shows how, in a scenario of globalised markets, the capacity to cooperate with other firms efficiently becomes essential in order to remain in the market in an economically, socially and environmentally cost-effective manner, and that the most innovative

enterprises are beginning to redesign their business model to become interoperable. This goal of interoperability is vital, not only from the perspective of the individual enterprise but also in the new business structures that are now emerging, such as supply chains, virtual enterprises, interconnected organisations or extended enterprises, as well as in mergers and acquisitions. Establishing efficient and relevant collaborative situations requires managing interoperability from a dynamic perspective: a relevant and efficient collaboration of organizations might require adaptation to remain in line with potentially changing objectives, evolving resources, and unexpected events, for example. Many of the papers contained in this, the seventh volume of Proceedings of the I-ESA Conferences have examples and illustrations calculated to deepen understanding and generate new ideas. The I-ESA'14 Conference is jointly organised by Ecole des Mines Albi-Carmaux, on behalf of PGSO, and the European Virtual Laboratory for Enterprise Interoperability (INTEROP-VLab) and supported by the International Federation for Information Processing (IFIP). A concise reference to the state of the art in systems interoperability, Enterprise Interoperability VI will be of great value to engineers and computer scientists working in manufacturing and other process industries and to software engineers and electronic and manufacturing engineers working in the academic environment.

Requirements Modelling and Specification for Service Oriented Architecture Springer Science & Business Media

Addresses the field of enterprise systems, covering progressive technologies, leading theories, and advanced applications.

[Enterprise Interoperability III](#) Morgan Kaufmann

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.

[Leveraging Knowledge for Innovation in Collaborative Networks](#) Tectum Wissenschaftsverlag

As business modeling becomes mainstream, every year more and more companies and government agencies are creating models of their businesses. But creating good business models is not a simple endeavor. Business modeling requires new skills. Written by two business modeling experts, this book shows you how to make your business modeling efforts successful. It provides in-depth coverage of each of the four distinct business modeling disciplines, helping you master them all and understand how to effectively combine them. It also details best practices for working with subject matter experts. And it shows how to develop models, and then analyze, simulate, and deploy them. This is essential, authoritative information that will put you miles ahead of everyone who continues to approach business modeling haphazardly. * Provides in-depth coverage of the four business modeling disciplines: process modeling, motivation modeling, organization modeling, and rules modeling. * Offers guidance on how to work effectively with subject matter experts and how to run business modeling workshops. * Details today's best practices for building effective business models, and describes common mistakes that should be avoided. * Describes standards for each business modeling discipline. * Explains how to analyze, simulate, and deploy business models. * Includes examples both from the authors' work with clients and from a single running example that spans the book.

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