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[Towards the Future Internet](#) CRC Press

The book is devoted to mathematical foundations providing synthesis and analysis of control and adaptation algorithms targeting modern telecommunication systems (TCS). These algorithms are finding more and more applications in modern telecommunication technologies and they determine the efficiency of TCS. The concept of telecommunication management network is used as a base methodology. The most popular technologies and network management methods are discussed. They include such issues as Common Management Information Protocol, Remote Network Management Protocol Information Base, Simple Network Management Protocol, and Net Flow. The methods of state variables are used as the main mathematic approaches for simulating control tasks. It allows solving the dynamic problems in the recursive style. The decomposition theorem is used for synthesis of control algorithms. Such issues as control algorithms for system observation and system state are discussed in details. The interpretation of applicability for discussed algorithms is given. Some part of the book is devoted to methods of statistic gathering and suppressing of a priori uncertainty. They are reduced to constructing adaptive procedures and algorithms of self-organization and self-repairing for intellectual taught systems. The neural networks, multifunctional automata and Petri nets are discussed as examples. Also, tasks and problems of business processes management are shown in their connection with TCS. Our book targets on students, PhD students and professionals in the area of telecommunications. We hope it will be useful for everybody connected with the new information technologies.

The C++ Standard Library "O'Reilly Media, Inc."

Innovative tools and techniques for the development and design of software systems are essential to the problem solving and planning of software solutions. Software Design and Development: Concepts, Methodologies, Tools, and Applications brings together the best practices of theory and implementation in the development of software systems. This reference source is essential for researchers, engineers, practitioners, and scholars seeking the latest knowledge on the techniques, applications, and methodologies for the design and development of software systems.

Advances in Service-Oriented and Cloud Computing

Springer Nature

Your #1 all-in-one reference and exam Study Guide for the UPDATED AWS SysOps Administrator certification! This comprehensive book guides readers through the role of a SysOps Administrator and helps prepare candidates to take the updated AWS Certified SysOps Administrator—Associate (SOA-C01) Exam. The AWS Certified SysOps

Administrator—Associate certification validates technical expertise in deployment, management, and operations on the AWS platform. This Study Guide not only prepares readers for the AWS exam, but it makes sure the reader is ready to perform the duties expected of SysOps Administrators. The book focuses on the skill-set required of AWS professionals by filling in the gap between test preparation and real-world preparedness. Concepts covered include: Monitoring and Reporting High Availability Deployment and Provisioning Storage and Data Management Security and Compliance Networking Automation and Optimization And More Readers will also have one year of free access to the Sybex interactive online learning environment and test bank, providing a suite of robust study tools including an assessment test, chapter tests, bonus practice exam, electronic flashcards, and a glossary of key terms.

Administrators will also have one year of free access to the Sybex interactive online learning environment and test bank, providing a suite of robust study tools including an assessment test, chapter tests, bonus practice exam, electronic flashcards, and a glossary of key terms.

Methods, Trends and Advances Springer

The pervasiveness of and universal access to modern Information and Communication

Technologies has enabled a popular new paradigm in the dissemination of information, art, and ideas. Now, instead of relying on a finite number of content providers to control the flow of information, users can generate and disseminate their own content for a wider audience. Open Source Technology:

Concepts, Methodologies, Tools, and Applications investigates examples and methodologies in user-generated and freely-accessible content available through electronic and online media. With applications in education, government, entertainment, and more, the technologies explored in these volumes will provide a comprehensive reference for web designers, software developers, and practitioners in a wide variety of fields and disciplines.

[15th Americas Conference on Information Systems, AMCIS 2009, SIGeBIZ track, San Francisco, CA, USA, August 6-9, 2009, Selected Papers](#) "O'Reilly Media, Inc."

The book focuses to foster new and original research ideas and results in three broad areas: computing, analytics, and networking with its prospective applications in the various interdisciplinary domains of engineering. This is an exciting and emerging interdisciplinary area in which a wide range of theory and methodologies are being investigated and developed to tackle complex and challenging real world problems. It also provides insights into the International Conference on Computing Analytics and Networking (ICCAN 2017) which is a premier international open forum for scientists, researchers and technocrats in academia as well as in industries from different parts of the world to present, interact, and exchange the state of art of concepts, prototypes, innovative research ideas in several diversified fields. The book includes invited keynote papers and paper presentations from both academia and industry to initiate and ignite our young minds in the meadow of momentous research and thereby enrich their existing knowledge. The book aims at postgraduate students and researchers working in the discipline of Computer Science & Engineering. It will be also useful for the researchers working in the domain of electronics as it contains some hardware technologies and forthcoming communication technologies.

Service Research and Innovation Springer

Recent economic, political, and technological forces are changing the landscape of electronic business and electronic commerce. Although great strides have been made over the past in understanding, researching and advancing e-business, rarely have we witnessed its use so profound and yet its limitations so pronounced, than what has been on global public display for the past 18 months. As a result, new e-commerce strategies and techniques are emerging, collaborative value creation is essential and e-business models are being refined and developed, with special attention towards IS in financial markets, health care and related institutions. It is for these reasons (and many more) that we are so particularly excited and grateful for the collection of papers included in this Value Creation in e-Business Management LNBI volume number 36. The papers selected in this volume address these emerging e-business issues and are organized into four research lines: Business Models for the Digital Economy, Electronic and Mobile Commerce Behavioral and Global Issues, IS in Financial Markets and Institutions, Web 2.0 and E-Commerce and Collaborative Value Creation. The first group, Business Models for the Digital Economy, provides a closer examination of business models from a rich mixture of segments in the IT industry. They include Hoyer and Stanoevska-Slabeva's business model types for enterprise mashup intermediaries, Riehle's 'commercial' open source business model, Chen's interesting comparison between i-Phone versus Kindles in electronic book sales, and Lyons and coauthors business models in emerging online services. *Service Life Cycle Tools and Technologies: Methods, Trends and Advances* IGI Global Future requirements for computing speed, system reliability, and cost-effectiveness

entail the development of alternative computers to replace the traditional von Neumann organization. As computing networks come into being, one of the latest dreams is now possible - distributed computing. Distributed computing brings transparent access to as much computer power and data as the user needs for accomplishing any given task - simultaneously achieving high performance and reliability. The subject of distributed computing is diverse, and many researchers are investigating various issues concerning the structure of hardware and the design of distributed software. Distributed System Design defines a distributed system as one that looks to its users like an ordinary system, but runs on a set of autonomous processing elements (PEs) where each PE has a separate physical memory space and the message transmission delay is not negligible. With close cooperation among these PEs, the system supports an arbitrary number of processes and dynamic extensions. Distributed System Design outlines the main motivations for building a distributed system, including: inherently distributed applications performance/cost resource sharing flexibility and extendibility availability and fault tolerance scalability Presenting basic concepts, problems, and possible solutions, this reference serves graduate students in distributed system design as well as computer professionals analyzing and designing distributed/open/parallel systems. Chapters discuss: the scope of distributed computing systems general distributed programming languages and a CSP-like distributed control description language (DCDL) expressing parallelism, interprocess communication and synchronization, and fault-tolerant design two approaches describing a distributed system: the time-space view and the interleaving view mutual exclusion and related issues, including election, bidding, and self-stabilization prevention and detection of deadlock reliability, safety, and security as well as various methods of handling node, communication, Byzantine, and software faults efficient interprocessor communication mechanisms as well as these mechanisms without specific constraints, such as adaptiveness, deadlock-freedom, and fault-tolerance virtual channels and virtual networks load distribution problems synchronization of access to shared data while supporting a high degree of concurrency **Foundations, Theory, and Practice** IGI Global Information Technology professionals can use this book to move beyond the excitement of web services and service oriented architecture (SOA) and begin the process of finding actionable ideas to innovate and create business value. In Enterprise SOA: Designing IT for Business Innovation, SAP's blueprint for putting SOA to work is analyzed from top to bottom. In addition to design, development, and architecture, vital contextual issues such as governance, security, change management, and culture are also explored. This comprehensive perspective reduces risk as IT departments implement ESA, a sound, flexible architecture for adapting business processes in response to changing market conditions. This book answers the following questions: What forces created the need for Enterprise Services Architecture? How does ESA enable business process innovation? How is model-driven development used at all levels of design, configuration, and deployment? How do all the layers of technology that support ESA work together? How will composite applications extend business process automation? How does ESA create new models for IT governance? How can companies manage disruptive change? How can enterprise services be discovered and designed? How will the process of adapting applications be simplified? Based on extensive research with experts from the German software

company SAP, this definitive book is ideal for architects, developers, and other IT professionals who want to understand the technology and business relevance of ESA in a detailed way--especially those who want to move on the technology now, rather than in the next year or two.

Emerging Trends in the Evolution of Service-Oriented and Enterprise Architectures Addison-Wesley

SOA is one of the latest technologies enterprises are using to tame their software costs - in development, deployment, and management. SOA makes integration easy, helping enterprises not only better utilize their existing investments in applications and infrastructure, but also open up new business opportunities. However, one of the big stumbling blocks in executing SOA is security. This book addresses Security in SOA with detailed examples illustrating the theory, industry standards and best practices. It is true that security is important in any system. SOA brings in additional security concerns as well rising out of the very openness that makes it attractive. If we apply security principles blindly, we shut ourselves of the benefits of SOA. Therefore, we need to understand which security models and techniques are right for SOA. This book provides such an understanding. Usually, security is seen as an esoteric topic that is better left to experts. While it is true that security requires expert attention, everybody, including software developers, designers, architects, IT administrators and managers need to do tasks that require very good understanding of security topics. Fortunately, traditional security techniques have been around long enough for people to understand and apply them in practice. This, however, is not the case with SOA Security. Anyone seeking to implement SOA Security is today forced to dig through a maze of inter-dependent specifications and API docs that assume a lot of prior experience on the part of readers. Getting started on a project is hence proving to be a huge challenge to practitioners. This book seeks to change that. It provides bottom-up understanding of security techniques appropriate for use in SOA without assuming any prior familiarity with security topics on the part of the reader. Unlike most other books about SOA that merely describe the standards, this book helps you get started immediately by walking you through sample code that illustrates how real life problems can be solved using the techniques and best practices described in standards. Whereas standards discuss all possible variations of each security technique, this book focusses on the 20% of variations that are used 80% of the time. This keeps the material covered in the book simple as well as self-sufficient for all readers except the most advanced. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book.

Enterprise SOA IOS Press

Modeling Enterprise Architecture with TOGAF explains everything you need to know to effectively model enterprise architecture with The Open Group Architecture Framework (TOGAF), the leading EA standard. This solution-focused reference presents key techniques and illustrative examples to help you model enterprise architecture. This book describes the TOGAF standard and its structure, from the architecture transformation method to governance, and presents enterprise architecture modeling practices with plenty of examples of TOGAF deliverables in the context of a case study. Although widespread and growing quickly, enterprise architecture is delicate to manage across all its dimensions. Focusing on the architecture transformation method, TOGAF provides a wide framework, which covers the repository, governance, and a set of recognized best practices. The examples featured in this book were realized using the open source Modelio tool, which includes extensions for TOGAF. Includes intuitive summaries of the complex TOGAF standard to let you effectively model enterprise architecture Uses practical examples to illustrate ways to adapt TOGAF to the needs of your enterprise Provides model examples with Modelio, a free modeling tool, letting you exercise TOGAF modeling immediately using a dedicated tool Combines existing modeling standards with TOGAF *Control and Adaptation in Telecommunication*

Systems IGI Global

In cooperation with experts and practitioners throughout the SOA community, best-selling author Thomas Erl brings together the de facto catalog of design patterns for SOA and service-orientation. More than three years in development and subjected to numerous industry reviews, the 85 patterns in this full-color book provide the most successful and proven design techniques to overcoming the most common and critical problems to achieving modern-day SOA. Through numerous examples, individually documented pattern profiles, and over 400 color illustrations, this book provides in-depth coverage of: • Patterns for the design, implementation, and governance of service inventories-collections of services representing individual service portfolios that can be independently modeled, designed, and evolved. • Patterns specific to service-level architecture which pertain to a wide range of design areas, including contract design, security, legacy encapsulation, reliability, scalability, and a variety of implementation and governance issues. • Service composition patterns that address the many aspects associated with combining services into aggregate distributed solutions, including topics such as runtime messaging and message design, inter-service security controls, and transformation. • Compound patterns (such as Enterprise Service Bus and Orchestration) and recommended pattern application sequences that establish foundational processes. The book begins by establishing SOA types that are referenced throughout the patterns and then form the basis of a final chapter that discusses the architectural impact of service-oriented computing in general. These chapters bookend the pattern catalog to provide a clear link between SOA design patterns, the strategic goals of service-oriented computing, different SOA types, and the service-orientation design paradigm. This book series is further supported by a series of resources sites, including soabooks.com, soaspecs.com, soapatterns.org, soamag.com, and soaposters.com.

Advanced Intelligent Systems for Sustainable Development (AI2SD'2019) Springer

"This book clarifies the present fast-advancing literature of the current state of art and knowledge in the areas of the development and reuse of reusable assets in emerging software systems and applications"--Provided by publisher. *SOA in Practice* Packt Publishing Ltd Annotation. This book constitutes the refereed proceedings of the International Workshops on Service-Oriented Computing, IC/SOC/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.

Doctoral Research in Art "O'Reilly Media, Inc."

"SOA Made Simple" is a concise and indispensable handbook for finally understanding exactly what Service Oriented Architecture is. Split into three clear sections, in this book you'll learn from both theory as well as step-by-step implementation examples to aid in your

understanding of this often poorly-articulated industry term. If you are an architect who wants to be completely clear in your understanding of what SOA is, then this book is essential. In fact, anyone (designer, developer, administrator or team lead) who is implementing or about to implement an architecture in an IT environment should not miss out on "SOA Made Simple." Some previous experience with general software architecture is required, but this guide will tell you everything you need to know about SOA in a clear and easy fashion.

Digital Enterprise Design and Management 2013 Springer Science & Business Media

Challenges in unpredictable markets, changing customer requirements, and advancing information technologies have led to progression towards service oriented engineering and agile and lean software development. These prevailing approaches to software systems provide solutions to challenges in demanding business environments. *Agile and Lean Service-Oriented Development: Foundations, Theory and Practice* explores the groundwork of service-oriented and agile and lean development and the conceptual basis and experimental evidences for the combination of the two approaches. Highlighting the best tools and guidelines for these developments in practice, this book is essential for researchers and practitioners in the software development and service computing fields. *Concepts, Methodologies, Tools, and Applications* IGI Global

You can build a world-class SOA infrastructure entirely using popular, and mature, open-source applications. Unfortunately, the technical documentation for most open-source projects focuses on a specific product, the big SOA picture. You're left to your own devices to figure out how to cobble together a full solution from the various bits. In other words, unless you already know how Mule and Tuscany work with jBPM, you're stuck. Open Source SOA shows readers how to build an entire SOA application using open-source technologies. It shows readers how to apply key ideas like Enterprise Service Bus (ESB) design and Business Process Management (BPM) and learn the tools and techniques to implement them effectively. To pull everything together, the author describes real-life case studies from his own work to tie together all the principles and practices. These hard-to-find case studies are pure gold for the reader, as most developers keep these trade secrets to themselves. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book.

InfoBase Publishing

Learn to apply the significant promise of SOA to overcome the formidable challenges of distributed enterprise development.

Workshops of ESOC 2014, Manchester, UK.

September 2-4, 2014, Revised Selected Papers Addison-Wesley Professional

Large IT organizations increasingly face the challenge of integrating various web services, applications, and other technologies into a single network. The solution to finding a meaningful large-scale architecture that is capable of spanning a global enterprise appears to have been met in ESB, or Enterprise Service Bus. Rather than conform to the hub-and-spoke architecture of traditional enterprise application integration products, ESB provides a highly distributed approach to integration, with unique capabilities that allow individual departments or business units to build out their integration projects in incremental, digestible chunks, maintaining their own local control and autonomy, while still being able to connect together each integration project into a larger, more global integration fabric, or grid. Enterprise Service Bus offers a thorough introduction and overview for systems architects, system integrators, technical project leads, and CTO/CIO level managers who need to understand, assess, and evaluate this new approach. Written by Dave Chappell, one of the best known and authoritative voices in the field of enterprise middleware and standards-based integration, the book drills down into the technical details of the major components of ESB, showing how it can utilize an event-driven SOA to bring a variety of enterprise

applications and services built on J2EE, .NET, C/C++, and other legacy environments into the reach of the everyday IT professional. With Enterprise Service Bus, readers become well versed in the problems faced by IT organizations today, gaining an understanding of how current technology deficiencies impact business issues. Through the study of real-world use cases and integration patterns drawn from several industries using ESB--including Telcos, financial services, retail, B2B exchanges, energy, manufacturing, and more--the book clearly and coherently outlines the benefits of moving toward this integration strategy. The book also compares ESB to other integration architectures, contrasting their inherent strengths and limitations. If you are charged with understanding, assessing, or implementing an integration architecture, Enterprise Service Bus will provide the straightforward information you need to draw your conclusions about this important disruptive technology.

SOA Security IGI Global

Presents an illustrated A-Z encyclopedia containing approximately 600 entries on computer and technology related topics.

Proceedings of ICCAN 2017 Springer Science & Business Media

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