

Soa In Practice The Art Of Distributed System Design

Eventually, you will enormously discover a additional experience and exploit by spending more cash. still when? do you assume that you require to acquire those every needs in the manner of having significantly cash? Why dont you try to get something basic in the beginning? Thats something that will lead you to comprehend even more vis--vis the globe, experience, some places, gone history, amusement, and a lot more?

It is your utterly own time to decree reviewing habit. in the middle of guides you could enjoy now is **Soa In Practice The Art Of Distributed System Design** below.

Software Reuse in the Emerging Cloud Computing Era - Yang, Hongji 2012-04-30

"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 - Nicolai M. Josuttis 2007-08-24

This book demonstrates service-oriented architecture (SOA) as a concrete discipline rather than a hopeful collection of cloud charts. Built upon the author's firsthand experience rolling out a SOA at a major corporation, SOA in Practice explains how SOA can simplify the creation and maintenance of large-scale applications. Whether your project involves a large set of Web Services-based components, or connects legacy applications to modern business processes, this book clarifies how -- and whether -- SOA fits your needs. SOA has been a vision for years. This book brings it down to earth by describing the real-world problems of implementing and running a SOA in practice. After defining SOA's many facets, examining typical use patterns, and exploring how loose coupling helps build stronger applications, SOA in Practice presents a framework to help you determine when to take advantage of SOA. In this book you will: Focus squarely on real deployment and technology, not just standards maps Examine business problems to determine which ones fit a SOA approach before plastering a SOA solution on top of them Find clear paths for building solutions without getting trapped in the mire of changing web services details Gain the experience of a systems analyst intimately involved with SOA "The principles and experiences described in this book played an important role in making SOA at T-Mobile a success story, with more than 10 million service calls per day." --Dr. Steffen Roehn, Member of the Executive Committee T-Mobile International (CIO) "Nicolai Josuttis has produced something that is rare in the over-hyped world of SOA; a thoughtful work with deep insights based on hands-on experiences. This book is a significant milestone in promoting practical disciplines for all SOA practitioners." --John Schmidt, Chairman, Integration Consortium "The book belongs in the hands of every CIO, IT Director and IT planning manager." --Dr. Richard Mark Soley, Chairman and CEO, Object Management Group; Executive Director, SOA Consortium

Evaluation of Novel Approaches to Software Engineering - Leszek A. Maciaszek 2013-01-03

This book contains a collection of thoroughly refereed papers presented at the 6th International Conference on Evaluation of Novel Approaches to Software Engineering, ENASE 2011, held in Beijing, China, in June 2011. The 18 revised and extended full papers presented together with 10 revised short papers were carefully reviewed and selected from 75 initial submissions. The papers cover a wide range of topics, such as software quality and testing, requirements engineering, programming, software processes and methods, software tools and environments, business process and services modeling, software components, software effort and processes, and socio-technical aspects of software development.

Advances in Computing and Data Sciences - Mayank Singh 2017-07-19

This book constitutes the refereed proceedings of the First International Conference on Advances in Computing and Data Sciences, ICACDS 2016, held in Ghaziabad, India, in November 2016. The 64 full papers were carefully reviewed and selected from 502 submissions. The papers are organized in topical sections on Advanced Computing; Communications; Informatics; Internet of Things; Data Sciences.

Software Design and Development: Concepts, Methodologies, Tools, and Applications -

Management Association, Information Resources 2013-07-31

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.

Digital Enterprise Design and Management 2013 - Pierre-Jean Benghozi 2013-03-30

This book contains all refereed papers that were accepted to the first edition of the « Digital Enterprise Design & Management » (DED&M 2013) international conference that took place in Paris (France) from February 12 to February 13, 2013. (Website: <http://www.dedm2013.dedm.fr/>) These proceedings cover the most recent trends in the emerging field of Digital Enterprise, both from an academic and a professional perspective. A special focus is put on digital uses, digital strategies, digital infrastructures and digital governance from an Enterprise Architecture point of view. The DED&M 2013 conference is organized under the guidance of the CESAMES non profit organization (<http://www.cesames.net/>).

REST in Practice - Jim Webber 2010-09-17

REST continues to gain momentum as the best method for building Web services, and this down-to-earth book delivers techniques and examples that show how to design and implement integration solutions using the REST architectural style.

Service-Oriented Computing. ICSOC/ServiceWave 2009 Workshops - Asit Dan 2010-09-16

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.

Enterprise Process Management Systems - Vivek Kale 2018-10-10

Enterprise Process Management Systems: Engineering Process-Centric Enterprise Systems using BPMN 2.0 proposes a process-centric paradigm to replace the traditional data-centric paradigm for Enterprise Systems (ES)--ES should be reengineered from the present data-centric enterprise architecture to process-centric process architecture to be called as Enterprise Process Management Systems (EPMS). The real significance of business processes can be understood in the context of current heightened priority on digital transformation or digitalization of enterprises. Conceiving the roadmap to realize a digitalized enterprise via the business model innovation becomes amenable only from the process-centric view of the enterprise. This pragmatic book: Introduces Enterprise Process Management Systems (EPMS) solutions that enable an agile enterprise. Describes distributed systems and Service Oriented Architecture (SOA) that paved the road to EPMS. Leverages SOA to explain the cloud-based realization of business processes in terms of Web Services. Describes how BPMN 2.0 addresses the requirements for agility by ensuring a seamless methodological path from process requirements modeling to execution and back (to enable process improvements). Presents the spreadsheet-driven Spreadsheets Application Development (SAD)

methodology for the design and development of process-centric application systems. Describes process improvement programs ranging right from disruptive programs like BPR to continuous improvement programs like lean, six sigma and TOC. Enterprise Process Management Systems: Engineering Process-Centric Enterprise Systems using BPMN 2.0 describes how BPMN 2.0 can not only capture business requirements but it can also provide the backbone of the actual solution implementation. Thus, the same diagram prepared by the business analyst to describe the business's desired To-Be process can also be used to automate the execution of that process on a modern process engine.

Requirements Engineering: Foundation for Software Quality - Daniel M. Berry 2011-03-16

This book constitutes the refereed proceedings of the 17th International Working Conference on Requirements Engineering: Foundation for Software Quality, REFSQ 2011, held in Essen, Germany, in March 2011. The 10 revised full papers and the 9 short papers presented were carefully reviewed and selected from 59 submissions. The papers are organized in seven topical sections on security and sustainability; process improvement and requirements in context; elicitation; models; services; embedded and real-time systems; and prioritization and traceability.

Service Life Cycle Tools and Technologies: Methods, Trends and Advances - Lee, Jonathan 2011-11-30

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.

Handbook of Research on Demand-Driven Web Services: Theory, Technologies, and Applications - Sun, Zhaohao 2014-03-31

In the current technological world, Web services play an integral role in service computing and social networking services. This is also the case in the traditional FREG (foods, resources, energy, and goods) services because almost all traditional services are replaced fully or partially by Web services. Handbook of Research on Demand-Driven Web Services: Theory, Technologies, and Applications presents comprehensive and in-depth studies that reveal the cutting-edge theories, technologies, methodologies, and applications of demand-driven Web, mobile, and e-business services. This book provides critical perspectives for researchers and practitioners, lecturers and undergraduate/graduate students, and professionals in the fields of computing, business, service, management, and government, as well as a variety of readers from all the social strata.

Advanced Intelligent Systems for Sustainable Development (AI2SD'2019) - Mostafa Ezziyani 2020-01-03

This book contains the latest researches on advanced intelligent systems applied in the field of education presented during the second edition of the International Conference on Advanced Intelligent Systems for Sustainable Development (AI2SD'2019) held on July 08-11, 2019, in Marrakech, Morocco. The book proposes new approaches and innovative strategies for the manipulation of data and big data collected from the educational environment, exploiting the analysis tools, algorithms of artificial intelligence, and machine learning techniques, in order to extract results, which allow improving the performance and effectiveness of the education field, which is a strategic lever for sustainable development. The book deals with concepts, strategies, and approaches developed on various current axes of scientific research in the field of education, such as smart e-learning, smart education (smart classroom, smart assessment and smart teaching and learning technologies), massive open online courses (MOOC), courseware design, and development for smart learning, cloud learning, and mobile learning. The book is intended for all actors in the educational sector, namely students, professors, academic researchers, and stakeholders. It constitutes a large-scale forum for the exchange of ideas, approaches, and innovative techniques between these actors

on the development and innovation of the field of education with the revolution 4.0. The authors of each chapter report the state of the art of the various topics addressed and present results of their own research, laboratory experiments, and successful applications. The purpose of this session is to share the idea of advanced intelligent systems with appropriate tools and techniques for modeling, management, and decision support in the field of education.

Towards the Future Internet - Georgios Tselentis 2009

This peer-reviewed book contains papers describing the major scientific achievements supported by European funding in the area of Future Internet. It is published in the context of FIA, the Future Internet Assembly, which is structured to permit interactions across technical domains from researchers and other stakeholders active in Future Internet research. FIA holds two meetings per year and calls on those involved in relevant funded research projects to participate actively and to steer its work. European scientists proved that they are at the forefront of Internet research already since the.

Business Strategy and Applications in Enterprise IT Governance - Van Grembergen, Wim 2012-06-30

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.

Modern Big Data Architectures - Dominik Ryzko 2020-04-09

Provides an up-to-date analysis of big data and multi-agent systems The term Big Data refers to the cases, where data sets are too large or too complex for traditional data-processing software. With the spread of new concepts such as Edge Computing or the Internet of Things, production, processing and consumption of this data becomes more and more distributed. As a result, applications increasingly require multiple agents that can work together. A multi-agent system (MAS) is a self-organized computer system that comprises multiple intelligent agents interacting to solve problems that are beyond the capacities of individual agents. Modern Big Data Architectures examines modern concepts and architecture for Big Data processing and analytics. This unique, up-to-date volume provides joint analysis of big data and multi-agent systems, with emphasis on distributed, intelligent processing of very large data sets. Each chapter contains practical examples and detailed solutions suitable for a wide variety of applications. The author, an internationally-recognized expert in Big Data and distributed Artificial Intelligence, demonstrates how base concepts such as agent, actor, and micro-service have reached a point of convergence—enabling next generation systems to be built by incorporating the best aspects of the field. This book: Illustrates how data sets are produced and how they can be utilized in various areas of industry and science Explains how to apply common computational models and state-of-the-art architectures to process Big Data tasks Discusses current and emerging Big Data applications of Artificial Intelligence Modern Big Data Architectures: A Multi-Agent Systems Perspective is a timely and important resource for data science professionals and students involved in Big Data analytics, and machine and artificial learning.

Agile and Lean Service-Oriented Development: Foundations, Theory, and Practice - Wang, Xiaofeng 2012-11-30

Challenges in unpredictable markets, changing customer requirements, and advancing information technologies have lead 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.

Engineering and Management of Data Centers - Jorge Marx Gómez 2017-11-10

This edited volume covers essential and recent development in the engineering and management of data centers. Data centers are complex systems requiring ongoing support, and their high value for keeping

business continuity operations is crucial. The book presents core topics on the planning, design, implementation, operation and control, and sustainability of a data center from a didactical and practitioner viewpoint. Chapters include: · Foundations of data centers: Key Concepts and Taxonomies · ITSDM: A Methodology for IT Services Design · Managing Risks on Data Centers through Dashboards · Risk Analysis in Data Center Disaster Recovery Plans · Best practices in Data Center Management Case: KIO Networks · QoS in NaaS (Network as a Service) using Software Defined Networking · Optimization of Data Center Fault-Tolerance Design · Energetic Data Centre Design Considering Energy Efficiency Improvements During Operation · Demand-side Flexibility and Supply-side Management: The Use Case of Data Centers and Energy Utilities · DevOps: Foundations and its Utilization in Data Centers · Sustainable and Resilient Network Infrastructure Design for Cloud Data Centres · Application Software in Cloud-Ready Data Centers This book bridges the gap between academia and the industry, offering essential reading for practitioners in data centers, researchers in the area, and faculty teaching related courses on data centers. The book can be used as a complementary text for traditional courses on Computer Networks, as well as innovative courses on IT Architecture, IT Service Management, IT Operations, and Data Centers.

Proceedings of the Ninth International Network Conference (INC 2012) - Paul Dowland 2012

This book contains the proceedings of the Ninth International Network Conference (INC2012), which was held in Port Elizabeth, South Africa, in July 2012. A total of 20 papers were accepted for inclusion in the conference, and they are presented here in four themed chapters. The main topics of the book include: Network Technologies; Mobile and Wireless Networking; Security and Privacy; Applications and Impacts. The papers address state-of-the-art research and applications of network technology, arising from both the academic and industrial domains. These proceedings should consequently be of interest to network practitioners, researchers, academics, and technical managers involved in the design, development and use of network systems.

Patterns of Information Management - Mandy Chessell 2013-05-02

Use Best Practice Patterns to Understand and Architect Manageable, Efficient Information Supply Chains That Help You Leverage All Your Data and Knowledge In the era of "Big Data," information pervades every aspect of the organization. Therefore, architecting and managing it is a multi-disciplinary task. Now, two pioneering IBM® architects present proven architecture patterns that fully reflect this reality. Using their pattern language, you can accurately characterize the information issues associated with your own systems, and design solutions that succeed over both the short- and long-term. Building on the analogy of a supply chain, Mandy Chessell and Harald C. Smith explain how information can be transformed, enriched, reconciled, redistributed, and utilized in even the most complex environments. Through a realistic, end-to-end case study, they help you blend overlapping information management, SOA, and BPM technologies that are often viewed as competitive. Using this book's patterns, you can integrate all levels of your architecture—from holistic, enterprise, system-level views down to low-level design elements. You can fully address key non-functional requirements such as the amount, quality, and pace of incoming data. Above all, you can create an IT landscape that is coherent, interconnected, efficient, effective, and manageable. Coverage Includes Understanding how a pattern language can help you address key information management challenges Defining information strategy and governance for organizations and users Creating orderly information flows you can reuse and synchronize as needed Managing information structure, meaning, and lifecycles Providing for efficient information access and storage when deploying new IT capabilities Moving information efficiently and reliably to support your processes Determining how information should be processed and maintained Improving quality and accessibility, and supporting higher-value analytics Protecting information via validation, transformation, enrichment, correction, security, and monitoring Planning new information management projects in the context of your existing IT resources

Encyclopedia of Computer Science and Technology - Harry Henderson 2009

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

Product Lifecycle Management in the Era of Internet of Things - Abdelaziz Bouras 2016-04-20

This book constitutes the refereed proceedings of the 12th IFIP WG 5.1 International Conference on

Product Lifecycle Management, PLM 2015, held in Doha, Qatar, in October 2015. The 79 revised full papers were carefully reviewed and selected from 130 submissions. The papers are organized in the following topical sections: smart products, assessment approaches, PLM maturity, building information modeling (BIM), languages and ontologies, product service systems, future factory, knowledge creation and management, simulation and virtual environments, sustainability and systems improvement, configuration and engineering change, education studies, cyber-physical and smart systems, design and integration issues, and PLM processes and applications.

Implementing SOA - Paul C. Brown 2008-04-09

Putting Service-Oriented Architecture (SOA) into Practice "This book is a must-have for enterprise architects implementing SOA. Through practical examples, it explains the relationship between business requirements, business process design, and service architecture. By tying the SOA implementation directly to business value, it reveals the key to ongoing success and funding." —Maja Tibbling, Lead Enterprise Architect, Con-way, Inc. "While there are other books on architecture and the implementation of ESB, SOA, and related technologies, this new book uniquely captures the knowledge and experience of the real world. It shows how you can transform requirements and vision into solid, repeatable, and value-added architectures. I heartily recommend it." —Mark Wencek, SVP, Consulting Services & Alliances, Ultimo Software Solutions, Inc. In his first book, Succeeding with SOA, Paul Brown explained that if enterprise goals are to be met, business processes and information systems must be designed together as parts of a total architecture. In this second book, Implementing SOA, he guides you through the entire process of designing and developing a successful total architecture at both project and enterprise levels. Drawing on his own extensive experience, he provides best practices for creating services and leveraging them to create robust and flexible SOA solutions. Coverage includes Evolving the enterprise architecture towards an SOA while continuing to deliver business value on a project-by-project basis Understanding the fundamentals of SOA and distributed systems, the dominant architectural issues, and the design patterns for addressing them Understanding the distinct roles of project and enterprise architects and how they must collaborate to create an SOA Understanding the need for a comprehensive total architecture approach that encompasses business processes, people, systems, data, and infrastructure Understanding the strategies and tradeoffs for implementing robust, secure, high-performance, and high-availability solutions Understanding how to incorporate business process management (BPM) and business process monitoring into the enterprise architecture Whether you're defining an enterprise architecture or delivering individual SOA projects, this book will give you the practical advice you need to get the job done.

Handbook of Research on Emerging Advancements and Technologies in Software Engineering - Ghani, Imran 2014-04-30

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.

Collaborative Networks for a Sustainable World - Luis M. Camarinha-Matos 2010-10-02

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 governing 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.

Service Research and Innovation - Amin Beheshti 2018-03-02

This book constitutes revised selected papers from the Australasian Symposium on Service Research and Innovation, ASSRI, held in Sydney Australia. The 11 full papers presented from ASSRI 2017, which took place during October 19-20, 2017, were carefully reviewed and selected from 26 submissions. The volume also contains 3 papers from ASSRI 2015, which took place during November 2-3, 2015, and one invited paper on the software development processes. The papers were organized in topical sections named: invited talk; modelling; design; quality; social, and application.

The Savvy Guide To HPC, Grid, Data Grid, Virtualisation and Cloud Computing - Adam Vile 2008-12-01

This book is a guide for professionals, explaining the Grid, Data Grid, Caching, Virtualisation and Cloud Computing Landscape in a no-nonsense, informative manner. The focus is on the overall picture of all the technologies, how they overlap, their real world use, their patterns of use, and what commercial and open-source products are available.

Control and Adaptation in Telecommunication Systems - Vladimir Popovskij 2011-04-29

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 State of the Art in Intrusion Prevention and Detection - Al-Sakib Khan Pathan 2014-01-29

The State of the Art in Intrusion Prevention and Detection analyzes the latest trends and issues surrounding intrusion detection systems in computer networks, especially in communications networks. Its broad scope of coverage includes wired, wireless, and mobile networks; next-generation converged networks; and intrusion in social networks. Presenting cutting-edge research, the book presents novel schemes for intrusion detection and prevention. It discusses tracing back mobile attackers, secure routing with intrusion prevention, anomaly detection, and AI-based techniques. It also includes information on physical intrusion in wired and wireless networks and agent-based intrusion surveillance, detection, and prevention. The book contains 19 chapters written by experts from 12 different countries that provide a truly global perspective. The text begins by examining traffic analysis and management for intrusion detection systems. It explores honeypots, honeynets, network traffic analysis, and the basics of outlier detection. It talks about different kinds of IDSs for different infrastructures and considers new and emerging technologies such as smart grids, cyber physical systems, cloud computing, and hardware techniques for high performance intrusion detection. The book covers artificial intelligence-related intrusion detection techniques and explores intrusion tackling mechanisms for various wireless systems and networks, including wireless sensor networks, WiFi, and wireless automation systems. Containing some chapters written in a tutorial style, this book is an ideal reference for graduate students, professionals, and researchers working in the

field of computer and network security.

Open Source Technology: Concepts, Methodologies, Tools, and Applications - Management Association, Information Resources 2014-11-30

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.

Handbook on Business Information Systems - A. Gunasekaran 2010

Pt. I. Health care information systems. ch. 1. Healthcare supply chain information systems VIA service-oriented architecture / Sultan N. Turhan and Özalp Vayvay. ch. 2. The role of the CIO in the development of interoperable information systems in healthcare organizations / António Grilo [und weitere]. ch. 3. Information systems for handling patients' complaints in health organizations / Zvi Stern, Elie Mersel and Nahum Gedalia. ch. 4. How to develop quality management system in a hospital / Ville Tuomi -- pt. II. Business process information systems. ch. 5. Modeling and managing business processes / Mohammad El-Mekawy, Khurram Shahzad and Nabeel Ahmed. ch. 6. Business process reengineering and measuring of company operations efficiency / Nataša Vujica Herzog. ch. 7. Value chain re-engineering by the application of advanced planning and scheduling / Yohanes Kristianto, Petri Helo and Ajmal Mian. ch. 8. Cultural auditing in the age of business : multicultural logistics management, and information systems / Alberto G. Canen and Ana Canen. ch. 9. Efficiency as criterion for typification of the dairy industry in Minas Gerais state / Luiz Antonio Abrantes [und weitere]. ch. 10. A neurocybernetic theory of social management systems / Masudul Alam Choudhury. ch. 11. Systematization approach for exploring business information systems : management dimensions / Albena Antonova. ch. 12. A structure for knowledge management systems assessment and audit / Joao Pedro Albino, Nicolau Reinhard and Silvina Santana. ch. 13. Risk management in enterprise resource planning systems introduction / Davide Aloini, Riccardo Dulmin and Valeria Mininno -- pt. III. Industrial data and management systems. ch. 14. Asset integrity management : operationalizing sustainability concerns / R.M. Chandima Ratnayake. ch. 15. How to boost innovation culture and innovators? / Andrea Bikfalvi [und weitere]. ch. 16. A decision support system for assembly and production line balancing / A.S. Simaria [und weitere]. ch. 17. An innovation applied to the simulation of RFID environments as used in the logistics / Marcelo Cunha De Azambuja [und weitere]. ch. 18. Customers' acceptance of new service technologies : the case of RFID / Alessandra Vecchi, Louis Brennan and Aristeidis Theotokis. ch. 19. Operational efficiency management tool placing resources in intangible assets / Claudelino Martins Dias Junior, Osmar Possamai and Ricardo Goncalves. ch. 20. Interactive technology maps for strategic planning and research directions based on textual and citation analysis of patents / Elisabetta Sani, Emanuele Ruffaldi and Massimo Bergamasco. ch. 21. Determining key performance indicators : an analytical network approach / Daniela Carlucci and Giovanni Schiuma -- pt. IV. Strategic business information systems. ch. 22. The use of information technology in small industrial companies in Latin America - the case of the interior of Sao Paulo, Brazil / Otávio José De Oliveira and Guilherme Fontana. ch. 23. Technology : information, business, marketing, and CRM management / Fernando M. Serson. ch. 24. Transfer of business and information management systems : issues and challenges / R. Nat Natarajan. ch. 25. Toward digital business ecosystem analysis / Aurelian Mihai Stanescu [und weitere]. ch. 26. The dynamics of the informational contents of accounting numbers / Akinloye Akindayomi -- pt. V. Information systems in supply chain management. ch. 27. Supply chain enabling technologies : management challenges and opportunities / Damien Power. ch. 28. Supply chain management / Avinder Gill and M. Ishaq Bhatti. ch. 29. Measuring supply chain performance in SMES / Maria Argyropoulou [und weitere]. ch. 30. Information sharing in service supply chain / Sari Uusipaavalniemi, Jari Juga and Maqsood Sandhu. ch. 31. RFID applications in the supply chain : an evaluation framework / Valerio Elia, Maria Grazia

Gnoni and Alessandra Rollo -- pt. VI. Tools for the evaluation of business information systems. ch. 32. Tools for the decision-making process in the management information system of the organization / Carmen De Pablos Heredero and Mónica De Pablos Heredero. ch. 33. Preliminaries of mathematics in business and information management / Mohammed Salem Elmusrati. ch. 34. Herding does not exist or just a measurement problem? A meta-analysis / Nizar Hachicha, Amina Amirat and Abdelfettah Bouri. ch. 35. Object-oriented metacomputing with exertions / Michael Sobolewski. ch. 36. A new B2B architecture using ontology and web services technology / Youcef Aklouf. ch. 37. The roles of computer simulation in supply chain management / Jia Hongyu and Zuo Peng

Advances in Service-Oriented and Cloud Computing - Guadalupe Ortiz 2015-02-27

This volume contains the technical papers presented in the four high-quality workshops associated with the European Conference on Service-Oriented and Cloud Computing, ESOC 2014, held in Manchester, UK, in September 2014: 4th International Workshop on Adaptive Services for the Future Internet, WAS4FI 2014, 2nd International Workshop on Cloud for IoT, CLIoT 2014, 2nd International Workshop on Cloud Service Brokerage, CSB 2014, and Seamless Adaptive Multi-cloud Management of Service-based Applications, SeaCloudS Workshop. The 19 revised full papers and 3 short papers were carefully reviewed and selected from 39 submissions. They focus on specific topics in service-oriented and cloud computing domains as cloud computing, service buses, Web services, service-oriented architectures, event-driven architectures, enterprise architectures, business process management, software selection and adaptation.

Value Creation in E-Business Management - Matthew L. Nelson 2009-08-07

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 LNBIP 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 iPhone versus Kindle's in electronic book sales, and Lyons and coauthors business models in emerging online services.

Progress in Computing, Analytics and Networking - Prasant Kumar Pattnaik 2018-04-10

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.

Modeling Enterprise Architecture with TOGAF - Philippe Desfray 2014-08-04

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

The C++ Standard Library - Nicolai M. Josuttis 2012

The C++ Standard Library provides a set of common classes and interfaces that greatly extend the core C++ language. Josuttis' book not only provides comprehensive documentation of each library component, it also offers clearly written explanations of complex concepts, describes the practical programming details needed for effective use, and gives example after example of working code. This thoroughly up-to-date book reflects the newest elements of the C++ standard library incorporated into the full ANSI/ISO C++ language standard. In particular, the text focuses on the Standard Template Library (STL), examining containers, iterators, function objects, and STL algorithms.

Semantic Web Services - Dieter Fensel 2011-04-28

A paradigm shift is taking place in computer science: one generation ago, we learned to abstract from hardware to software, now we are abstracting from software to serviceware implemented through service-oriented computing. Yet ensuring interoperability in open, heterogeneous, and dynamically changing environments, such as the Internet, remains a major challenge for actual machine-to-machine integration. Usually significant problems in aligning data, processes, and protocols appear as soon as a specific piece of functionality is used within a different application context. The Semantic Web Services (SWS) approach is about describing services with metadata on the basis of domain ontologies as a means to enable their automatic location, execution, combination, and use. Fensel and his coauthors provide a comprehensive overview of SWS in line with actual industrial practice. They introduce the main sociotechnological components that ground the SWS vision (like Web Science, Service Science, and service-oriented architectures) and several approaches that realize it, e.g. the Web Service Modeling Framework, OWL-S, and RESTful services. The real-world relevance is emphasized through a series of case studies from large-scale R&D projects and a business-oriented proposition from the SWS technology provider Seekda. Each chapter of the book is structured according to a predefined template, covering both theoretical and practical aspects, and including walk-through examples and hands-on exercises. Additional learning material is available on the book website www.swsbook.org. With its additional features, the book is ideally suited as the basis for courses or self-study in this field, and it may also serve as a reference for researchers looking for a state-of-the-art overview of formalisms, methods, tools, and applications related to SWS.

Enterprise SOA - Dirk Krafzig 2005

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

Emerging Trends in the Evolution of Service-Oriented and Enterprise Architectures - Eman El-Sheikh 2016-09-23

This book presents emerging trends in the evolution of service-oriented and enterprise architectures. New architectures and methods of both business and IT are integrating services to support mobility systems, Internet of Things, Ubiquitous Computing, collaborative and adaptive business processes, Big Data, and Cloud ecosystems. They inspire current and future digital strategies and create new opportunities for the digital transformation of next digital products and services. Services Oriented Architectures (SOA) and Enterprise Architectures (EA) have emerged as a useful framework for developing interoperable, large-

scale systems, typically implementing various standards, like Web Services, REST, and Microservices. Managing the adaptation and evolution of such systems presents a great challenge. Service-Oriented Architecture enables flexibility through loose coupling, both between the services themselves and between the IT organizations that manage them. Enterprises evolve continuously by transforming and extending their services, processes and information systems. Enterprise Architectures provide a holistic blueprint to help define the structure and operation of an organization with the goal of determining how an organization can most effectively achieve its objectives. The book proposes several approaches to address the challenges of the service-oriented evolution of digital enterprise and software architectures.

Distributed System Design - Jie Wu 2017-12-14

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