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Web Services

Concepts, Architectures and Applications



Springer

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Web Services Gustavo Alonso, Fabio Casati, Harumi Kuno, Vijay Machiraju, 2013-01-09 Like many other incipient technologies Web services are still surrounded by a substantial level of noise This noise results from the always dangerous combination of wishful thinking on the part of research and industry and of a lack of clear understanding of how Web services came to be On the one hand multiple contradictory interpretations are created by the many attempts to realign existing technology and strategies with Web services On the other hand the emphasis on what could be done with Web services in the future often makes us lose track of what can be really done with Web services today and in the short term These factors make it extremely difficult to get a coherent picture of what Web services are what they contribute and where they will be applied Alonso and his co authors deliberately take a step back Based on their academic and industrial experience with middleware and enterprise application integration systems they describe the fundamental concepts behind the notion of Web services and present them as the natural evolution of conventional middleware necessary to meet the challenges of the Web and of B2B application integration Rather than providing a reference guide or a how to write your first Web service kind of book they discuss the main objectives of Web services the challenges that must be faced to achieve them and the opportunities that this novel technology provides Established as well as recently proposed standards and techniques e g WSDL UDDI SOAP WS Coordination WS Transactions and BPEL are then examined in the context of this discussion in order to emphasize their scope benefits and shortcomings Thus the book is ideally suited both for professionals considering the development of application integration solutions and for research and students interesting in understanding and contributing to the evolution of enterprise application technologies

Web Services Gustavo Alonso, Fabio Casati, Harumi Kuno, Vijay Machiraju, 2013-03-14 Like many other incipient technologies Web services are still surrounded by a tremendous level of noise This noise results from the always dangerous combination of wishful thinking on the part of research and industry and of a lack of clear understanding of how Web services came to be On the one hand multiple contradictory interpretations are created by the many attempts to realign existing technology and strategies with Web services On the other hand the emphasis on what could be done with Web services in the future often makes us lose track of what can be really done with Web services today and in the short term These factors make it extremely difficult to get a coherent picture of what Web services are what they contribute and where they will be applied Alonso and his co authors deliberately take a step back Based on their academic and industrial experience with middleware and enterprise application integration systems they describe the fundamental concepts behind the notion of Web services and present them as the natural evolution of conventional middleware necessary to meet the challenges of the Web and of B2B application integration Rather than providing a reference guide or a how to write your first Web service kind of book they discuss the main objectives of Web services the challenges that must be faced to achieve them and the opportunities that this novel technology provides

Established as well as recently proposed standards and techniques e.g. WSDL, UDDI, SOAP, WS Coordination, WS Transactions and BPEL are then examined in the context of this discussion in order to emphasize their scope, benefits and shortcomings. Thus the book is ideally suited both for professionals considering the development of application integration solutions and for research and students interested in understanding and contributing to the evolution of enterprise application technologies.

Autonomic Computing Manish Parashar, Salim Hariri, 2018-10-03 The complexity of modern computer networks and systems combined with the extremely dynamic environments in which they operate is beginning to outpace our ability to manage them. Taking yet another page from the biomimetics playbook, the autonomic computing paradigm mimics the human autonomic nervous system to free system developers and administrators from performing and overseeing low level tasks. Surveying the current path toward this paradigm, *Autonomic Computing: Concepts, Infrastructure and Applications* offers a comprehensive overview of state of the art research and implementations in this emerging area. This book begins by introducing the concepts and requirements of autonomic computing and exploring the architectures required to implement such a system. The focus then shifts to the approaches and infrastructures including control based and recipe based concepts followed by enabling systems technologies and services proposed for achieving a set of self properties including self configuration, self healing, self optimization and self protection. In the final section, examples of real world implementations reflect the potential of emerging autonomic systems such as dynamic server allocation and runtime reconfiguration and repair. Collecting cutting edge work and perspectives from leading experts, *Autonomic Computing: Concepts, Infrastructure and Applications* reveals the progress made and outlines the future challenges still facing this exciting and dynamic field.

Business Process Management Gustavo Alonso, Peter Dadam, Michael Rosemann, 2007-09-04 This book constitutes the refereed proceedings of the 5th International Conference on Business Process Management (BPM 2007) held in Brisbane, Australia in September 2007. The papers are organized in topical sections on business process maturity and performance, business process modeling, case studies, compliance and change, process configuration and execution, formal foundations of BPM, business process mining and semantic issues in BPM.

Modeling Semantic Web Services Jos de Bruijn, Mick Kerrigan, Uwe Keller, Holger Lausen, James Scicluna, 2008-05-11 Semantic Web services promise to automate tasks such as discovery, mediation, selection, composition and invocation of services enabling fully flexible automated e-business. Their usage however still requires a significant amount of human intervention due to the lack of support for a machine processable description. In this book Jos de Bruijn and his coauthors lay the foundations for understanding the requirements that shape the description of the various aspects related to Semantic Web services such as the static background knowledge in the form of ontologies, the functional description of the service and the behavioral description of the service. They introduce the Web Service Modeling Language (WSML) which provides means for describing the functionality and behavior of Web services as well as the underlying business knowledge in the form of ontologies with a conceptual grounding in the Web Service

Modeling Ontology Academic and industrial researchers as well as professionals will find a comprehensive overview of the concepts and challenges in the area of Semantic Web services the Web Services Modeling Language and its relation to the Web Services Modeling Ontology and an in depth treatment of both enabling technologies and theoretical foundations ,

Enabling Context-Aware Web Services Quan Z. Sheng,Jian Yu,Schahram Dustdar,2010-05-06 With recent advances in radio frequency identification RFID technology sensor networks and enhanced Web services the original World Wide Web is continuing its evolution into what is being called the Web of Things and Services Such a Web will support an ultimately interactive environment where everyday physical objects such as buildings sidewalk *Enterprise Architecture A to Z* Daniel Minoli,2008-06-19 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

Technologies for E-Services Alejandro Buchmann,Fabio Casati,Ludger Fiege,Mei-Chun Hsu,Ming-Chien Shan,2002-08-14 131 JingLi XinZhang ZhongTian PLM DynamicBusinessProcessCompositionandExecution flow byRuleInference 141 LiangzhaoZeng DavidFlaxer HenryChang Jun JangJeng Trust BasedSecurityModelandEnforcementMechanismforWeb ServiceTechnology 151 SeokwonYang HermanLam StanleyY W Su FairExchangeunderLimitedTrust 161 ChihiroIto MizuhoIwaihara YahikoKambayashi AuthorIndex 171 Dynamic E business Trends in Web Services C

Fast and Scalable Cloud Data Management Felix Gessert,Wolfram Wingerath,Norbert Ritter,2020-05-15 The unprecedented scale at which data is both produced and consumed today has generated a large demand for scalable data management solutions facilitating fast access from all over the world As one consequence a plethora of non relational distributed NoSQL database systems have risen in recent years and today s data management system landscape has thus become somewhat hard to overlook As another consequence complex polyglot designs and elaborate schemes for data distribution and delivery have become the norm for building applications that connect users and organizations across the globe but choosing the right combination of systems for a given use case has become increasingly difficult as well To help practitioners stay on top of that challenge this book presents a comprehensive overview and classification of the current system landscape in cloud data management as well as a survey of the state of the art approaches for efficient data distribution and delivery to end user devices The topics covered thus range from NoSQL storage systems and polyglot architectures backend over distributed transactions and Web caching network to data access and rendering performance in the client end user By distinguishing popular data management systems by data model

consistency guarantees and other dimensions of interest this book provides an abstract framework for reasoning about the overall design space and the individual positions claimed by each of the systems therein Building on this classification this book further presents an application driven decision guidance tool that breaks the process of choosing a set of viable system candidates for a given application scenario down into a straightforward decision tree *Proceedings of the 3rd Ph.D. Retreat of the HPI Research School on Service-oriented Systems Engineering* Meinel, Christoph ,Plattner, Hasso,Döllner, Jürgen,Weske, Mathias,Polze, Andreas,Hirschfeld, Robert,Naumann, Felix,Giese, Holger,2009 Design and Implementation of service oriented architectures imposes a huge number of research questions from the fields of software engineering system analysis and modeling adaptability and application integration Component orientation and web services are two approaches for design and realization of complex web based system Both approaches allow for dynamic application adaptation as well as integration of enterprise application Commonly used technologies such as J2EE and NET form de facto standards for the realization of complex distributed systems Evolution of component systems has lead to web services and service based architectures This has been manifested in a multitude of industry standards and initiatives such as XML WSDL UDDI SOAP etc All these achievements lead to a new and promising paradigm in IT systems engineering which proposes to design complex software solutions as collaboration of contractually defined software services Service Oriented Systems Engineering represents a symbiosis of best practices in object orientation component based development distributed computing and business process management It provides integration of business and IT concerns The annual Ph D Retreat of the Research School provides each member the opportunity to present his her current state of their research and to give an outline of a prospective Ph D thesis Due to the interdisciplinary structure of the Research Scholl this technical report covers a wide range of research topics These include but are not limited to Self Adaptive Service Oriented Systems Operating System Support for Service Oriented Systems Architecture and Modeling of Service Oriented Systems Adaptive Process Management Services Composition and Workflow Planning Security Engineering of Service Based IT Systems Quantitative Analysis and Optimization of Service Oriented Systems Service Oriented Systems in 3D Computer Graphics as well as Service Oriented Geoinformatics

Distributed and Cloud Computing Kai Hwang,Jack Dongarra,Geoffrey C. Fox,2013-12-18 Distributed and Cloud Computing From Parallel Processing to the Internet of Things offers complete coverage of modern distributed computing technology including clusters the grid service oriented architecture massively parallel processors peer to peer networking and cloud computing It is the first modern up to date distributed systems textbook it explains how to create high performance scalable reliable systems exposing the design principles architecture and innovative applications of parallel distributed and cloud computing systems Topics covered by this book include facilitating management debugging migration and disaster recovery through virtualization clustered systems for research or ecommerce applications designing systems as web services and social networking systems using peer to peer computing The principles of cloud computing are discussed

using examples from open source and commercial applications along with case studies from the leading distributed computing vendors such as Amazon Microsoft and Google Each chapter includes exercises and further reading with lecture slides and more available online This book will be ideal for students taking a distributed systems or distributed computing class as well as for professional system designers and engineers looking for a reference to the latest distributed technologies including cloud P2P and grid computing Complete coverage of modern distributed computing technology including clusters the grid service oriented architecture massively parallel processors peer to peer networking and cloud computing Includes case studies from the leading distributed computing vendors Amazon Microsoft Google and more Explains how to use virtualization to facilitate management debugging migration and disaster recovery Designed for undergraduate or graduate students taking a distributed systems course each chapter includes exercises and further reading with lecture slides and more available online

Distributed Computing and Internet Technology Sanjay K. Madria, 2006-12-07 This book constitutes the refereed proceedings of the Third International Conference on Distributed Computing and Internet Technology ICDCIT 2006 held in Bhubaneswar India in December 2006 The 24 revised full papers and 10 revised short papers presented together with 1 keynote address and 1 invited talk cover the main areas distributed computing internet technology system security data mining and software engineering

REST: From Research to Practice Erik Wilde, Cesare Pautasso, 2011-08-04 This volume provides an overview and an understanding of REST Representational State Transfer Discussing the constraints of REST the book focuses on REST as a type of web architectural style The focus is on applying REST beyond Web applications i e in enterprise environments and in reusing established and well understood design patterns when doing so The reader will be able to understand how RESTful systems can be designed and deployed and what the results are in terms of benefits and challenges encountered in the process Since REST is relatively new as an approach for designing Web Services the more advanced part of the book collects a number of challenges to some of the assumptions and constraints of REST and looks at current research work on how REST can be extended and applied to scenarios that often are considered not to be a good match for REST This work will help readers to reach a deeper understanding of REST on a practical as well as on an advanced level

Semantic business process modeling Ivan Markovic, 2014-08-14 This book presents a process oriented business modeling framework based on semantic technologies The framework consists of modeling languages methods and tools that allow for semantic modeling of business motivation business policies and rules and business processes Quality of the proposed modeling framework is evaluated based on the modeling content of SAP Solution Composer and several real world business scenarios

Technologies for E-Services Ming-Chien Shan, Umeshwar Dayal, Meichun Hsu, 2005-02-18 The 2004 VLDB workshop on Technologies on E Services VLDB TES 2004 was the fth workshop in a series of annual workshops endorsed by the VLDB Conference Itservedasaforumfortheexchangeofideas resultsandexperiences in the area of e services and e business VLDB TES 2004 took place in Toronto Canada It featured the

presentation of 12 regular papers focused on major aspects of e business solutions In addition the workshop invited 2 industrial speakers to share their vision insight and experience with the audience The workshop would not have been a success without help from so many people Special thanks go to Fabio Casati who organized the program agenda and the proceedings publication and Chandra Srivastava who served as the publicity chair We also thank the members of the program committee and the additional reviewers for their thorough work which greatly contributed to the quality of the program We hope that the participants found the workshop interesting and stimulating and we thank them for attending the workshop and for contributing to the discussions

Engineering Web Applications Sven Casteleyn, Florian Daniel, Peter Dolog, Maristella Matera, 2009-07-25 Nowadays Web applications are almost omnipresent The Web has become a platform not only for information delivery but also for eCommerce systems social networks mobile services and distributed learning environments Engineering Web applications involves many intrinsic challenges due to their distributed nature content orientation and the requirement to make them available to a wide spectrum of users who are unknown in advance The authors discuss these challenges in the context of well established engineering processes covering the whole product lifecycle from requirements engineering through design and implementation to deployment and maintenance They stress the importance of models in Web application development and they compare well known Web specific development processes like WebML WSDM and OOHDm to traditional software development approaches like the waterfall model and the spiral model

Handbook of Mobile Systems Applications and Services Anup Kumar, Bin Xie, 2016-04-19 From fundamental concepts and theories to implementation protocols and cutting edge applications the Handbook of Mobile Systems Applications and Services supplies a complete examination of the evolution of mobile services technologies It examines service oriented architecture SOA and explains why SOA and service oriented computing SOC will pl

Advanced Distributed Measuring Systems - Exhibits of Application Vladim R. Haasz, 2023-12-18 Measuring systems are an essential part of all automated production systems they also serve to ensure quality of production or they are used to assure the reliability and safety in various areas The same applies in principle likewise for fields of telecommunication energy production and distribution health care etc Similarly no serious scientific research in the field of natural and technical sciences can be performed without objective data about the investigated object which are usually acquired using measuring system Demands on the speed and accuracy of measurement increase in all areas in general These are the grounds for publishing this book The book Advanced distributed measuring systems exhibits of application offers 8 up to date examples of typical laboratory industrial and biomedical applications of advanced measuring and information systems including virtual instrumentation It arose based on the most interesting papers from this area published at IDAACS 2011 conference However single chapters include not only system design solution in wider context but also relevant theoretical parts achieved results and possible future ways of design and development Technical topics discussed in the book include embedded applications

small distributed systems automotive distributed system distributed monitoring systems based on wireless networks synchronisation in large DAQ systems virtual instrumentation Advanced distributed measuring systems exhibits of application is ideal for personnel of firms deals with control systems automotive electronics airspace instrumentation health care technology etc as well as academic staff and postgraduate students in electrical control and computer engineering

Semantic Web Services for Web Databases Mourad Ouzzani, Athman Bouguettaya, 2011-10-23 Semantic Web Services for Web Databases introduces an end to end framework for querying Web databases using novel Web service querying techniques This includes a detailed framework for the query infrastructure for Web databases and services Case studies are covered in the last section of this book Semantic Web Services For Web Databases is designed for practitioners and researchers focused on service oriented computing and Web databases

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