

Gustavo Alonso
Fabio Casati
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Web Services

Concepts, Architectures and Applications



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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 interesting in understanding and contributing to the evolution of enterprise application technologies

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 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.

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.

E-Government: Towards Electronic Democracy Michael Böhlen, Johann Gamper, Wolfgang Polasek, Maria A. Wimmer, 2005-01-28 The TCGOV 2005 international conference on e

government was held at the Free University of Bozen Bolzano during March 2-4 2005. The conference was initiated by the working group Towards Electronic Democracy (TED) of the European Science Foundation and was jointly organized by the Free University of Bozen Bolzano, the Municipality of Bozen Bolzano, the TED Working Group and the IFIP Working Group 8.5. The conference addressed a large spectrum of issues that are relevant and have to be investigated for a successful transition from the traditional form of government to a new form known as e government. The main focus was on the following topics: improving citizen participation and policy making, e democracy, government application integration, semantic Web technologies for e government, security aspects for e government services. Two sessions were dedicated to e democracy, an emerging area within government that seeks to enhance democratic processes and provide increased opportunities for individuals and communities to be involved in governmental decisions.

The contributions of these two sessions cover more fundamental results and insights as well as experiences from different countries. Another focus was on government application integration and the use of semantic Web technologies, which are important technical aspects on the agenda of e government research. Different architectures for the integration and orchestration of distributed services and processes were presented along with two case studies. Three papers about Semantic Web technologies discussed the use of ontologies in e government.

Process-Aware Information Systems Marlon Dumas, Wil M. van der Aalst, Arthur H. ter Hofstede, 2005-10-27. A unifying foundation to design and implement process aware information systems. This publication takes on the formidable task of establishing a unifying foundation and set of common underlying principles to effectively model design and implement process aware information systems. Authored by leading authorities and pioneers in the field, *Process Aware Information Systems* helps readers gain a thorough understanding of major concepts, languages and techniques for building process aware applications including UML and EPCs, two of the most widely used notations for business process modeling. Concrete techniques for process design and analysis, process execution standards WfMC and BPEL, representative commercial tools ARIS, TIBCO, Staffware and FLOWer. Each chapter begins with a description of the problem domain and then progressively unveils relevant concepts and techniques. Examples and illustrations are used extensively to clarify and simplify complex material. Each chapter ends with a set of exercises ranging from simple questions to thought provoking assignments. Sample solutions for many of the exercises are available on the companion Web site. Armed with a new and deeper understanding, readers are better positioned to make their own contributions to the field and evaluate various approaches to a particular task or problem. This publication is recommended as a textbook for graduate and advanced undergraduate students in computer science and information systems as well as for professionals involved in workflow and business process management, groupware and teamwork, enterprise application integration and business to business integration. A Solutions Manual is available online. An Instructor Support FTP site is also available.

Software Engineering and Middleware Thomas Gschwind, Cecilia Mascolo, 2005-03-31. Middleware provides

an integration framework for multiple and potentially diverse computing platforms. It allows developers to engineer distributed applications more easily providing abstractions and primitives to handle distribution and coordination.

Middleware is constantly facing new challenges. Today's advances in computing including development of pervasive applications exacerbates the diversity problem introducing variations not only in terms of performance but also in terms of environments and device characteristics. Software engineers are therefore challenged both in the area of the development of new and scalable middleware systems where open heterogeneous component based platforms should provide richer functionality and services and in the area of application development where tools to simplify the use of middleware solutions are necessary.

Software Engineering and Middleware is the premier workshop for the research and practice community of software engineering working in both areas to present and discuss new ideas. In this field, SEM2004 was the fourth international workshop on software engineering and middleware of the EDO SEM workshop series. Previous workshops of this series were successfully held in 2002, 2000 and 1999. Most of the proceedings have been published by Springer in the Lecture Notes in Computer Science series.

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.

Data Access in Workflow Management Systems Marek Lehmann, 2006
Fundamental Approaches to Software Engineering Maura Cerioli, 2005-03-24
This book constitutes the refereed proceedings of the 8th International Conference on Fundamental Approaches to Software Engineering FASE 2005 held in Edinburgh, UK in April 2005 as part of ETAPS. The 25 revised full papers presented together with an invited paper

were carefully reviewed and selected from 105 submissions The papers are organized in topical sections on Web services graph grammars and graph transformations components product lines theory code understanding and validation UML and automatic proofs and provers

Service-Oriented Computing - ICSOC 2005 Boualem Benatallah,Fabio Casati,Paolo Traverso,2005-11-30 This book constitutes the refereed proceedings of the Third International Conference on Service Oriented Computing ICSOC 2005 held in Amsterdam The Netherlands in December 2005 The 32 revised full papers and 14 short papers presented together with 8 industrial and demo papers were carefully reviewed and selected from over 200 submissions The papers are organized in topical sections on vision papers service specification and modelling service design and validation service selection and discovery service composition and aggregation service monitoring service management semantic Web and grid services as well as security exception handling and SLAs

Web Information Systems -- WISE 2004 Workshops Christoph Bussler,2004-11-18 This book constitutes the joint refereed proceedings of the two workshops held in conjunction with the 5th International Conference on Web Information Systems Engineering WISE 2004 in Brisbane Australia in November 2004 The 21 revised full papers and 5 revised short papers presented were carefully reviewed and selected for inclusion in the book The papers are organized in topical sections on ontologies for networked systems mobile learning fragmentation versus integration perspectives of the web information systems discipline and web services quality

Service Level Management in Cloud Computing Melanie Holloway,2017-06-30 Melanie Holloway explores a cloud broker offering service level agreement negotiation and monitoring as a service to consumers She proposes a negotiation mechanism which enables the achievement of economically efficient agreements and an approach for reliable consumer side availability monitoring in conjunction with strategies for robust monitor placement The author addresses the loss of control of consumers over critical aspects specifically quality of service when using services from the cloud Basically the cloud computing paradigm places the responsibility for resource management on the provider side Hence the control over cloud service performance is very limited on the consumer side

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

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

Technologies for E-Services Alejandro Buchmann,Fabio Casati,Ludger Fiege,Mei-Chun Hsu,Ming-Chien Shan,2002-08-14 131 JingLi XinZhang ZhongTian PLM

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Dynamic E business Trends in Web Services C **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 *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 **On the Move to Meaningful Internet Systems 2005** R. Meersman,2005-10-21 Constitutes the joint refereed proceedings of nine international workshops held as part of OTM 2005 in Agia Napa Cyprus in October

November 2005 Topics addressed are agents Web services and ontologies merging AWeSOMe 2005 context aware mobile systems CAMS 2005 grid computing and its application to data analysis GADA 2005 and more

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