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# Web Services

Concepts, Architectures and Applications



Springer

# Web Services Gustavo Alonso

**Thomas Gschwind, Uwe Assmann, Oscar  
Nierstrasz**



## **Web Services Gustavo Alonso:**

*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

*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

*Technologies for E-Services* Ming-Chien Shan, Umeshwar Dayal, 2005-03-08 This book constitutes the thoroughly refereed postproceedings of the 5th International Workshop on Technologies for E Services TES 2004 held in Toronto Canada in August 2004 in conjunction with VLDB 2004 The 12 revised full papers presented went through two rounds of reviewing and selection Among the topics addressed are current issues on various aspects of e services in particular of Web services such as Web service composition Web service selection formal Web service development e service coordination wireless ad hoc networking b2b information services enterprise application integration and m commerce

*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

**Software Composition** Thomas Gschwind, Uwe Assmann, Oscar Nierstrasz, 2005-09-19 Component based software development is the next step after object oriented programming that promises to reduce complexity and improve reusability These advantages have also been identified by the industry and consequently over the past years a large number of component based techniques and processes have been adopted in many of these organizations A visible result of this is the number of component models that have been developed and standardized These models define how individual software components interact with each other and simplify the design process of software systems by allowing developers to choose from previously existing components The development of component models is a first step in the right direction but there are many challenges that cannot be solved by the development of a new component model alone Such challenges are the adaptation of components and their

development and verification Software Composition is the premiere workshop to advance the research in component based software engineering and its related fields SC 2005 was the fourth workshop in this series As in previous years SC 2005 was organized as an event co located with the ETAPS conference This year's program consisted of a keynote on the revival of dynamic languages given by Prof Oscar Nierstrasz and 13 technical paper presentations 9 full and 4 short papers The technical papers were carefully selected from a total of 41 submitted papers Each paper was thoroughly peer reviewed by at least three members of the program committee and consensus on acceptance was achieved by means of an electronic PC discussion This LNCS volume contains the revised versions of the papers presented at SC 2005

2003 IEEE Symposium on Human Centric Computing Languages and Environments John Hosking, Philip Cox, 2003

**Technologies for E-Services**, 2005

Proceedings, 2003

**Fundamental Approaches to Software Engineering**, 2005

**Web Services** Gustavo Alonso, Fabio Casati, Harumi Kuno, Vijay Machiraju, 2003-09-04 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, E-business, and the Semantic Web*, 2002

*The British National Bibliography* Arthur James Wells, 2006

*Improving Workflow Process Model by Discovering Decision Point Locations* Sharmila Subramaniam, 2003

*Interoperation with Network Services* Shankar Ravindra Ponnekanti, 2005

*14th International Workshop on Research Issues in Data Engineering (RIDE-WS-ECEG 2004)* Athman Bouguettaya, 2004 RIDE provides an exchange of new ideas developments and experiences on issues related to Web services e commerce and digital

governments The RIDE 2004 proceedings covers Web service constraint mechanisms security in Web services service  
discovery publishing and XML versioning      *Foreign Companies in Argentina Yearbook* ,2007      **VLDB 2006** ,2006  
    **Forthcoming Books** Rose Arny,2003      *Proceedings of the 26th International Conference on Very Large Data Bases*  
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