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# Web Services, E-Business, and the Semantic Web

Second International Workshop, WES 2003  
Klagenfurt, Austria, June 16-17, 2003  
Revised Selected Papers



Springer

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## Preface

The 2nd Workshop on Web Services, E-Business, and the Semantic Web (WES) was held during June 16–17, 2003 in conjunction with CAiSE 2003, the 15th International Conference on Advanced Information Systems Engineering.

The Internet is changing the way businesses operate. Organizations are using the Web to deliver their goods and services, to find trading partners, and to link their existing (maybe legacy) applications to other applications. Web services are rapidly becoming the enabling technology of today's e-business and e-commerce systems, and will soon transform the Web as it is now into a distributed computation and application framework.

On the other hand, e-business as an emerging concept is also impacting software applications, the everyday services landscape, and the way we do things in almost each domain of our life. There is already a body of experience accumulated to demonstrate the difference between just having an online presence and using the Web as a strategic and functional medium in e-business-to-business interaction (B2B) as well as marketplaces.

Finally, the emerging Semantic Web paradigm promises to annotate Web artifacts to enable automated reasoning about them. When applied to e-services, the paradigm hopes to provide substantial automation for activities such as discovery, invocation, assembly, and monitoring of e-services.

But much work remains to be done before realizing this vision.

Clearly Web services must satisfy a number of challenging requirements in order to be able to play a crucial role in the new application domain of e-business and distributed application development. They should be modeled and designed to reflect the business objectives. Although some progress has been made in the area of Web service description and discovery, and there are some important standards like SOAP, WSDL, and UDDI emerging, there is still a long way to go. There is still a list of issues that need to be addressed and researched in connection with foundations, technology support, modeling methodologies, and engineering principles before Web services becomes the prominent paradigm for distributed computing and electronic business.

The goal of this workshop is to bring Web services, e-business, and Semantic Web technological issues together for discussion and review. This includes new research results and developments in the context of Web services and e-business as well as application of existing research results in this new fascinating area.

Besides very interesting and stimulating research paper presentations, two keynotes were delivered in the morning of every workshop day. Pat Croke addressed the workshop with a keynote titled “Enterprise Application Integration in 2010 A.D.”. He gave interesting insights into past, current and future developments in the space of Enterprise Application Integration.

Robert Meersman reviewed the state of the art with an interesting keynote titled “Old Ontology Wine in New Semantic Bags, and Other Scalability Issues”. The keynote gave important insights and created a lively discussion.

We would like to thank the WES program committee for their hard work in helping make this workshop a success.

June 2003

Christoph Bussler  
Dieter Fensel  
Maria E. Orlowska  
Jian Yang

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