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# Web Information Systems Engineering – WISE 2005 Workshops

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Proceedings

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# Message from the WISQ Workshop Chairs

The number of Web information systems (WIS) has grown phenomenally. This in turn has triggered specific research and development focusing on WIS, i.e., information systems (IS) that are integrated in the Web. Also recently new paradigms have evolved such as Web services. The openness of WIS implies that the system developers at development time tend to know the anticipated users of WIS much less well than would be the case for traditional (i.e., non-Web) IS. Determining the functional and non-functional requirements for WIS thus becomes virtually impossible. The functional requirements (at least to some extent) can be considered as being constituted by the key services the vendor wants to have on offer. However, the non-functional requirements have to be replaced by WIS quality. That turns quality into a particular concern with respect to WIS.

From a user's perspective quality can be defined as the suitability for intended or practical use. However, this notion of suitability is subjective and cannot be applied easily in a system under study. A number of quality aspects have been defined already for software systems (and for IS in particular), for simplifying quality related investigations. Competition has led to the fact that for a particular business there are a number of WIS available that implement the key operations. Therefore customers have a choice as to whether to continue using what is not satisfactory or trying something new. New technologies such as Web services seem additionally to suggest that WIS quality should be considered from a different angle or with different concepts, methods and tools than IS in general.

WISQ 2005 was a forum for discussing and disseminating research regarding the quality of WIS and Web services from a holistic point of view and in a comprehensive manner. WISQ 2005 was the third in a series of workshops that commenced in 2003 as the Web Services Quality Workshop (WQW 2003) and continued on in 2004 as the Web Information Systems Workshop (WIS 2004). All three editions of the workshop were held in conjunction with the Web Information Systems Engineering (WISE) conference series.

This year, we received 12 submissions of which 7 papers were accepted. All papers were independently peer-reviewed by the international Program Committee of WISQ 2005.

September 2005

Roland Kaschek  
Shonali Krishnaswamy

# Message from the WBL Workshop Chair

Recent advances in Internet technologies have rapidly changed our life in various ways. Especially the Web has many positive effects on education. It overcomes the time and space limitations of traditional schools. Teachers and students are now using the Web to access vast amounts of information and resources in the cyberspace. The Web also allows educators to implement a range of new teaching and learning practices, which redefine classroom-learning experiences.

The aim of this workshop was to invite researchers from various fields to present and discuss their ideas on Web-based learning. Areas of interest include various aspects of Web-based learning such as user interface design, learning and content management system, quality management in Web-based learning, the infrastructure of the Web-based learning environment, curriculum design in Web-based learning, assessment strategy in Web-based learning, instructional design methods for Web-based learning, collaborative Web-based learning, and virtual university, etc.

A total of 14 research papers were submitted from 8 countries and were reviewed through 12 program committees. Each paper was reviewed by two internationally renowned program committee members. Papers were rigorously examined and selected based on their significance, originality, technical quality, relevance, and clarity of presentation. Finally 10 papers were selected to be presented at the workshop.

I would like to take this opportunity to thank all the authors who submitted papers to the workshop. I also thank the Program Committee members. Thanks also go to the conference organizers for their support.

September, 2005

Woochun Jun

# Message from the SSWS Workshop Chairs

The Semantic Web is an extension of the World Wide Web which seeks to provide data and metadata in a format more amenable for use by intelligent agents and other computer programs. Recent W3C Recommendations for the Semantic Web include the Resource Description Framework (RDF) and the OWL Web Ontology Language. These standards define a graph data model and provide formal semantics for reasoning and inferring additional content. The scale and open world nature of the Semantic Web impose additional challenges beyond those addressed by earlier knowledge base systems.

As deployment of the Semantic Web progresses, scalability becomes increasingly important. The SSWS 2005 workshop seeks to bring together researchers and practitioners to present and discuss recent ideas and results addressing scalability challenges.

Of 21 submitted papers 11 were accepted. These cover a range of topics including existing implementations, benchmarking, interoperability, optimization techniques, approximation methods, experimental results, and lessons learned.

September, 2005

Mike Dean  
Yuanbo Guo  
Zhengxiang Pan

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