

International Workshop on Web Services – Modeling and Testing (WS-MaTe '06)

June 9, 2006 – Palermo, Italy

www.selab.isti.cnr.it/ws-mate

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Web Services are today the default choice for solving the various issues related to the organization and implementation of software distribution. Technical solutions are becoming numerous and in the next future we can figure out that the further adoption of common agreed specifications will raise even more the interest from academia and industries. However, while many current systems are concerned with the migration towards the WS technology, well defined methodologies for modeling service-oriented applications, and the impact of this paradigm for what concerns analysis capability, remain still largely unclear.

Modeling WS based systems seems particularly challenging considering that most of the web services that will constitute the final system are implemented and hosted by different stakeholders and also evolve independently. The current methodology of specifying WSs is generally recognized as poor and various proposals to augment the descriptions of single and choreographed services are on their way. In this process we claim that considerations concerning testability and the capability to base them on an “increased information model” should have a first-class role. Therefore, the development of reliable WS-oriented systems will require suitable mechanisms, tools, and techniques, also based on appropriate ways of describing the services that may not yet have been taken into account, even by those consortia and standards bodies who are already paving the way to identify common notations for WS specification.

Another interesting aspect of WS technologies is the emergence of a standardization effort within different application community to guarantee correct interactions. Such effort generally aims at precisely describing the interface and the expected behaviour of a service. The definition of standard services requires the establishment of an agreed process/procedure for modeling and documenting WS-based systems. In fact such information become of vital importance for WS developers that want to implement their version of the standards, and to certification agencies that will assess the conformance to such standards with several methods, the most relevant certainly being testing.

This workshop is organised within the framework of the TELCERT project (www.opengroup.org/telcert). It aims at putting together researchers and practitioners to discuss the different issues related with modeling and testing of Web Services. Particularly interesting will be examples of processes followed in the implementation of real service based systems. Some more precise topics of interest for the workshop, but not intended as exclusive, are:

- ✓ WS specification
- ✓ WS composition modeling
- ✓ Verification and Validation of WS
- ✓ WS Design
- ✓ Testing WS Coordination and Composition
- ✓ General Frameworks for WS testing
- ✓ Test methodologies and techniques, in particular for:
 - ✓ Audition Based Testing (or off-line verification activities)
 - ✓ Run-time testing and monitoring (or on-line verification activities)
- ✓ Formal models for describing and reasoning about WSs
- ✓ WS deployment description
- ✓ Standardization of WS description

Submissions visiting issues related to standard and application of WSs in specific domains are also welcome.

Submissions

Researchers and practitioners are invited to submit original papers that have not been published, or are not under consideration for publication, elsewhere. Submitted papers must be written in English and should not exceed 15 pages. Accepted papers will be published in electronic format, negotiations with Elsevier for a devoted issue of *Electronic Notes on Theoretical Computer Science (ENTCS)* are underway. For author information see <http://www.elsevier.com/locate/entcs>. All submitted papers will be judged based on their quality, relevance, originality, significance, and soundness by at least three member of the Program Committee. See the event website for major details. For any enquiry contact the organization at: ws-mate_admin@isti.cnr.it

Important Dates

Deadline for submission:

March 12th, 2006

Notification of acceptance:

April 9th, 2006

Camera-ready paper due:

April 29th, 2006

Workshop day:

June 9th, 2006