

IEEE 2011 International Workshop on Web Services in Healthcare and Application (WSHA 2011)



IBM Research



in conjunction with IEEE ICWS 2011, SCC 2011, CLOUD 2011, and SERVICES 2011



CALL FOR PAPERS

DESCRIPTION

As the Web continues its march towards becoming the primary mode of information dissemination and sharing, Web Service Technology (WST) has started making a noticeable impact on Healthcare. Bold initiatives such as NHIN, data.gov, Health Information Exchanges and caBIG are ushering in an era in which it is more prudent to create applications by composing them from pre-existing services rather than building them from scratch. The field of Healthcare IT is abuzz with the need for integration and data interoperability. The federal dollars and language are urging healthcare providers and system vendors to think in terms of data sharing. At the same time, the variety and complexity of healthcare/biomedical information call for adoption of web services-based solutions. WST provides a set of technologies and standards that are imperative for development of markup and ontologies that are critical utilization of distributed healthcare information resources and creation of collaborative environments.

The adoption of the WST in healthcare has the potential of impacting the future of publishing biomedical research. More significantly, this 'service orientation' opens up the possibility of developing (through service composition) powerful automated intelligent systems that support sophisticated healthcare processes in novel ways. These developments are being further facilitated by the lowering of cost of systems. Other technological trends including increasingly pervasive sensing networks, higher processing power, and the ability to transfer data more quickly through both wired and wireless systems are further driving the need for Web Services.

International Workshop on Web Services in Healthcare and Application (WSHA'2011) provides a venue to present and discuss the potential, the challenges and the implications of adoption of Web Service technologies and tools in healthcare. The objective of this workshop is to bring together researchers and practitioners from the fields of healthcare, biomedical sciences, computer science, management and services to share their experiences and research results, and identify the emerging trends, opportunities, problems, and challenges in this area. It is anticipated that the workshop will foster collaborative efforts among practitioners and researchers, accelerate knowledge discovery, and thus contribute towards advances in research and practice to improve quality of care, prevent errors, reduce costs, decrease paperwork, and improve health of the general population.

Workshop Chairs:

Ching-Seh Wu, PhD, Oakland University, Rochester, MI 48309, cwu@oakland.edu

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Program Committee Members:

- Abraham Bernstein, University of Zurich, Switzerland
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- Jian Song, Los Alamos National Lab
- Huyu Qu, Honeywell, USA

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Important Dates

- Paper Submission: Feb. 21, 2011
- Decision Notification (Electronic): March 21, 2011
- Camera-Ready Submission & Pre-registration: April 8, 2011

Paper Submission

Authors are invited to submit full papers (about 8 pages) or short papers (about 4 pages) as per IEEE 8.5 x 11 manuscript guidelines (<http://www.computer.org/cspres/instruct.htm>). All papers should be in PDF and submitted via the submission system at <http://www.confhub.com/MyPapers.php?cid=220>. First time users need to register with the system first. All the accepted papers by the workshops will be included in the Proceedings of the Seventh IEEE 2011 World Congress on Services (SERVICES 2011) which will be published by IEEE Computer Society.

LIST OF TOPICS

Research results, case studies, and demos of systems on web service and information management in health and biomedical applications are encouraged. Distinguished selected papers presented at this workshop will be invited in the special issues of International Journal of Healthcare Information Systems and Informatics. Topics addressed by the workshop include, but are not limited to:

- Service-oriented Architecture approaches to healthcare/biomedical informatics
- Ontology and semantics in healthcare web services
- Coordination/optimization in healthcare/biomedical informatics
- Interoperability issues in healthcare informatics
- Developing, testing, and using embedded applications in healthcare service provision
- Protection of individual privacy for aggregate anonymous data, security and privacy policies for healthcare web services
- Legacy Healthcare System Integration into Healthcare Web Services
- Composition of service components of healthcare informatics
- Interfaces for transmitting healthcare data across institutions/hospitals
- Data mining and management for medical records database, including mining clinical notes, test data and images for healthcare web services
- Artificial intelligence technologies to support complex decision making in healthcare web services
- Tools to assess the impact of interventions on quality and cost effectiveness for health care
- Mobile web services in healthcare informatics
- Healthcare economics