

# Web Archiving and Digital Libraries (WADL)

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## ABSTRACT

This workshop will explore integration of Web archiving and digital libraries, so the complete life cycle involved is covered: creation/authoring, uploading/publishing in the Web (2.0), (focused) crawling, indexing, exploration (searching, browsing), archiving (of events), etc. It will include particular coverage of current topics of interest, like: big data, mobile web archiving, and systems (e.g., Memento, SiteStory, Hadoop processing).

## Categories and Subject Descriptors

H.3.5 [Information Storage and Retrieval]: Online Information Services – *Web-based services*. H.3.6 [Information Storage and Retrieval]: Library Automation – *Large text archives*. H.3.7 [Information Storage and Retrieval]: Digital Libraries – Collection, Standards, Systems issues.

## General Terms

Management, Standardization.

## Keywords

Web archiving; Internet Archive.

## 1. INTRODUCTION

Our understanding of the past will, to a large extent, depend on our success with Web archiving. WADL 2017 will bring together international leaders from industry, government, and academia, who are tackling this important challenge. They will explore the integration of Web archiving and digital libraries, over the complete life cycle: creation/authoring, uploading, publishing in the Web, crawling/collecting, compressing, formatting, storing, preserving, analyzing, indexing, supporting access, etc.

The objectives of this workshop are to:

- continue to build the community of people integrating Web archiving with digital libraries;
- help attendees learn about useful methods, systems, and software in this area;
- help chart future research and practice in this area, so more and higher quality Web archiving occurs;
- produce an archival publication that will help advance technology and practice; and
- promote synergistic efforts including collaborative projects and proposals.

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## 2. RELATED WORK

The most recent related workshop, WADL 2016, was held in conjunction with JCDL 2016. It led to an in-process special issue of the IEEE TCDL Bulletin; that from 2015 had 13 papers [1]. An earlier workshop, WIRE, focused on research leading to or making use of archives that preserve Internet content [2]. The first workshop on Web Archiving and Digital Libraries, WADL 2013, led to a summary [3] after a group responded to the call for meeting [4] as part of the JCDL 2013 workshop program. An earlier similar workshop at a prior JCDL took place in Ottawa in 2011 [5], partly as a result of the emergence of a cooperative to explore Web archiving [6]. Broader in scope but related are the annual General Assembly meetings of the International Internet Preservation Consortium (IIPC) [7]. Various sponsored programs have connected, like a closely related Mellon funded initiative [8].

## 3. TOPICS

This workshop will cover all topics of interest, including but not limited to:

Archiving (events)	Big data	Classification
Community building	Crawling (focused)	Curation, Q/C
Databases / collections	Discovery	Extraction/analysis
Filling gaps	Globalization	Linking archives
Metadata	Mobile devices	Network science
Preservation	Resource description	Social sciences
Standards, protocols	Systems, tools	Tweet connections

## 4. LOGISTICS

### 4.1 Audience and Attendees

There is a growing community interested in this topic. Based on interest in recent years, we expect to have 15-30 attendees, including a solid representation of students. We will advertise, solicit submissions, have them reviewed by the program committee, and then organize an interesting program. We anticipate it to include aspects from multiple disciplines such as Computer Science, Library and Information Science, Web Science, Social Sciences, etc.

### 4.2 Format and Duration

A full-day workshop is needed, though it may be possible to split it across two days if necessary. There will be invited speakers, selected papers, posters, demonstrations, and panels.

### 4.3 Special Details and Requirements

We expect an international program committee of 6-12 people, in addition to the three co-chairs. We may run a WebEx teleconference during the workshop so that those unable to attend at the last moment will still be able to be involved. We plan to have a small poster session in addition to the usual type of activities.

As in 2015 and 2016, we expect to have a special issue of IEEE TCDL Bulletin; that led to a call for a special issue of IJDL, which is now in press, so if the timing is right, WADL 2017 contributions may go to IJDL later too.

## 5. BIOGRAPHICAL AND CONTACT INFORMATION

Edward Fox holds a Ph.D. and M.S. in Computer Science from Cornell, and a B.S. from M.I.T. Since 1983 he has been at Virginia Tech, where he serves as Professor. He directs VT's Digital Library Research Laboratory and the Networked Digital Library of Theses and Dissertations. He was a member of the Board of CRA (the Computer Research Association). He was chair of the IEEE Technical Committee on Digital Libraries, and earlier was chair of ACM SIGIR. He was chair of the steering committee for JCDL, and is on the international advisory committee for ICADL. He has been (co-)Principal Investigator on over 120 research grants/contracts. He has taught over 80 tutorials and has given 66 keynote/distinguished/ international invited talks. He has (co-)authored 18 books, 120 journal/magazine articles, 49 books chapters, 211 refereed conference/workshop papers, 73 posters, and over 150 other publications/reports, plus over 300 additional talks. Fox was editor for IR and DL for ACM Books. He was Co-Editor-in-Chief for ACM JERIC, and is on the boards of IJDL, JEMH, JIIS, J. UCS, Multimedia Tools & Applications, and PeerJ CS. He is a Fellow of IEEE.

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Zhiwu Xie is an associate professor at Virginia Tech Libraries and leads its technology development team. He leads the development of transactional archiving based UWS, the Goodwin Hall Living Lab data management system, IMLS ETDplus, and VTechData, among others. He is deeply involved in Fedora/Hydra, APTrust, PREMIS, ResourceSync, and AltMetrics Data Quality. His research has received supported from Mellon, IBM, Amazon, and NSF XSEDE. He was a co-chair of WADL 2015 and 2016. His website is at <http://scholar.lib.vt.edu/staff/zxie/>.

Martin Klein holds a Ph.D. in Computer Science from Old Dominion University. He currently is a scientist in the Research Library at Los Alamos National Laboratory. He was program chair of DL 2014, poster chair of JCDL 2015, and co-conference chair of iPres 2016. In addition, he is a board member of the Web Archiving Collaboration at Columbia University and editorial board member of the International Journal on Digital Libraries as well as the guest editor for the Bulletin of IEEE Technical Committee on Digital Libraries. He also was co-chair of WADL 2015 and

2016. Martin Klein is the lead editor of the ANSI/NISO Specification Z39.99 and has published numerous journal/magazine articles and conference/workshop papers. More information can be found at: <http://www.cs.odu.edu/~mklein>

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