

Advancing the Evidence Base of Digital Preservation

Micah Altman
MIT Libraries
Massachusetts Institute of Technology
E25-131 (45 Carlton Street)
Cambridge, MA
+1-585-466-4224
escience@MIT.EDU

Jonathan Crabtree
Odum Institute
UNC - Chapel Hill
229B Davis Library CB#3355
Chapel Hill, NC 27599-3355
+1-919-962-0517
jonathan_crabtree@unc.edu

Helen R. Tibbo
School of Info. & Lib. Science
UNC - Chapel Hill
201 Manning Hall CB#3360
Chapel Hill, NC 27599-3360
+1-919-962-8063
Tibbo@ils.unc.edu

ABSTRACT

Research is critical to the advancement of both a basic understanding and the effective practice of digital preservation. Research must, however, be intimately linked to practice in order to improve outcomes. This panel will discuss methodology, metrics, tools, and exemplars that can effectively build the evidence base for digital preservation. Panelists will present on a simulation framework for evaluating preservation risks, formal/machine actionable preservation strategies and implementations; and evaluation of preservation performance.

General Terms

Innovative practice; Training and education.

Keywords

Methodology, Research, Metrics, Experiments.

1. INTRODUCTION

Research is critical to the advancement of both a basic understanding and the effective practice of digital preservation. But research must be intimately linked to practice in order to improve outcomes. This panel will discuss methodology, metrics, tools, and exemplars that can effectively build the evidence base for digital preservation. Panelists will address the following questions:

- What exemplars have been most successful in systematically contributing to the overall cumulative evidence base for digital preservation practice?
- How can replicable, scalable research and assessment methods -- including trend analysis, simulation, and designed experiments be best integrated into preservation practices?
- What approaches are most successful in integrating research and practice (research-based-practice or practice-based-research)?
- What are the strengths and weakness of current metrics and measurements for digital preservation practice?

Micah Altman will discuss a simulation framework for evaluating preservation risks. Jonathan Crabtree will present on formal/machine actionable preservation. Finally, Helen Tibbo will discuss the development of ISO 16363, its subsequent use to ensure high quality repositories, and the potential for research using ISO findings.

2. ACKNOWLEDGMENTS

Our thanks to the National Digital Stewardship Alliance for their support in developing this panel.

iPres 2015 conference proceedings will be made available under a Creative Commons license.

With the exception of any logos, emblems, trademarks or other nominated third-party images/text, this work is available for re-use under a Creative Commons Attribution 3.0 unported license.

Authorship of this work must be attributed. View a [copy of this licence](#).