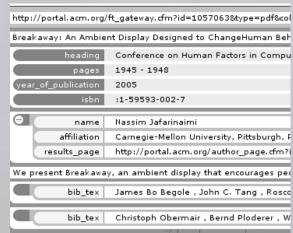
meta-metadata:

an extensible semantic architecture for multimedia metadata definition, extraction, and presentation





andruid kerne, sasnikantn damaraju,

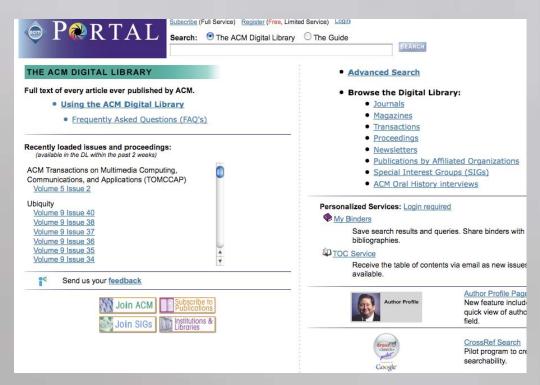
bharat kumar, and andrew webb



interface ecology lab

department of computer science & engineering texas a&m university

information sources



large number of elements

human experience: difficult to explore

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From context to content: leveraging context to infer media metadata

Pdf (373 KB) Full text

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Proceedings of the 12th annual ACM international conference on Multimedia

SESSION: Brave new topics - session 2: from context to content: leveraging conte tadata semantics

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↑ ABSTRACT

The recent popularity of mobile camera phones allows for new opportunities to gather im for generating metadata for photos using spatial, temporal, and social context. We descri semantic and sensory gaps. In particular, combining and sharing spatial, temporal, and s make inferences about media content.

taken with camera phones and its performance evaluation. We propose that leveraging count elements within a collection

> used to search, browse, collect and explore

> > find related information

unified framework

problem: heterogeneous sources

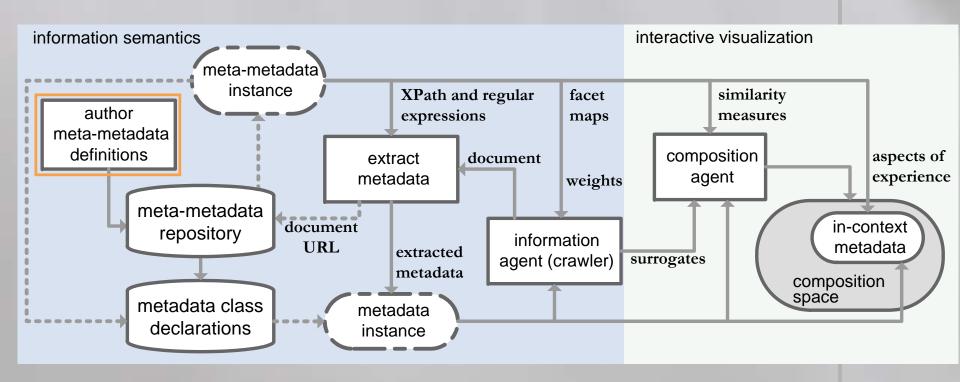
solution: language for authoring extensible metadata structure

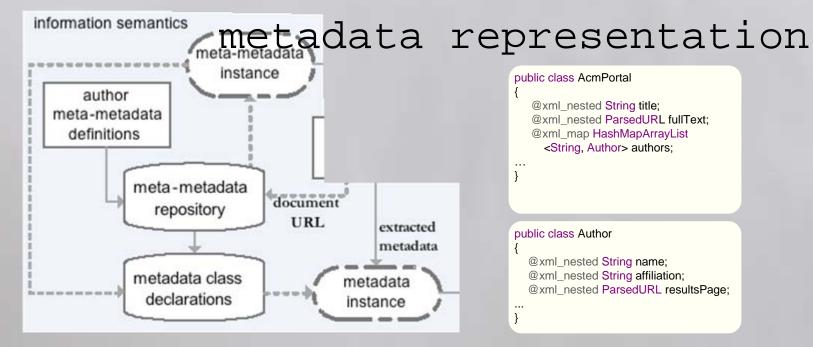
meta-metadata

programming not required

language

architecture





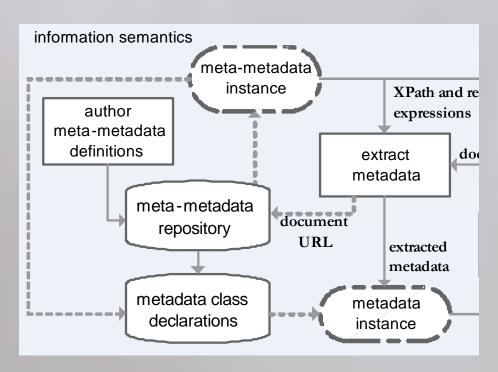
```
public class AcmPortal
   @xml nested String title;
   @xml nested ParsedURL fullText;
   @xml map HashMapArrayList
     <String, Author> authors;
public class Author
  @xml_nested String name;
  @xml nested String affiliation;
  @xml_nested ParsedURL resultsPage;
```

strongly typed metadata fields

nested structure

meta-metadata > metadata translation

metadata extraction



unique by field per a source

XPath expressions

metadata visualization

0	source		heading	Conference on Human Factors in Computing Systems 1945 - 1948
			pages	
		year_of_publication		2005
			isbn	:1-59593-002-7
(a	uthors (4)	Θ	name	Nassim Jafarinaimi
			affiliation	Carnegie-Mellon University, Pittsburgh, PA
	- 1"	re	sults_page	http://portal.acm.org/author_page.cfm?id=81100381825&coll=GUIDE&dl=GUIDE&trk=0.
	abstract We present Breakaway, an ambient display that encourages people, whose job requires them to sit for lon			
(refe	rences (9)		bib_te×	James Bo Begole , John C. Tang , Rosco Hill, Rhythm modeling, visualizations and ap.
① cit	tations (2)		bib_te×	Christoph Obermair , Bernd Ploderer , Wolfgang Reitberger , Manfred Tscheligi, Cues
	location			

properties describing display and interaction field order navigatesTo hide alwaysShow

mixed-initiative creativity support tool

surrogates & information composition



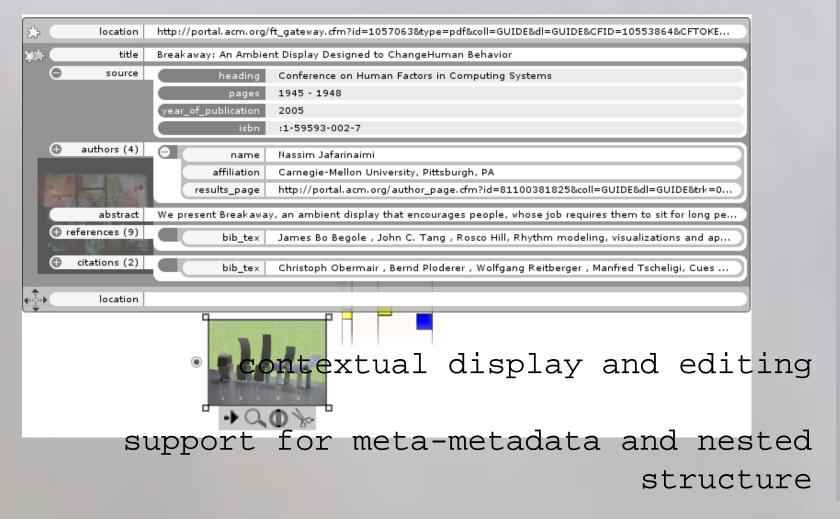
BRIDGING THE GAP



We can use our most advanced water purification technology to help in the fight against thirst and water-born illnesses.



in-context metadata



demo

conclusion

diverse metadata from heterogeneous sources

meta-metadata defines life cycle of metadata

author XML, no programming

in-context visualization

developed as reusable components

questions and thoughts

