

Integrating User-Generated Content in the ACL Anthology

Praveen Bysani

Min-Yen Kan (ACL Anthology Editor)

Search the Anthology via Google | via Searchbench @ DFKI | via AAN @ UMich

The ACL Anthology currently hosts over 21,200 papers on the study of computational linguistics and natural language processing. Subscribe to the mailing list to receive announcements and updates to the Anthology.

Anthology. The Proceedings of the 50th Annual Meeting of the Association for Computational Linguistics and the 12 associated workshops are now available in the Anthology. The Proceedings of the 13th Annual Meeting of the Special Interest Group on Discourse and Dialogue (SIGDIAL 2012), are also now available.

The beta version of the new ACL Anthology goes live. Try it out and give us your feedback!

ACL events

Journal: Intro FS MT&CL 74-79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 00 01 02 03 04 05 06 07 08 09 10 11 12

ACL: Intro 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 00 01 02 03 04 05 06 07 08 09 10 11 NEW 12

EACL: Intro 83 85 87 89 91 93 95 97 99 03 06 09 12

NAACL: Intro 00* 01 03 04 06* 07* 09* 10* 12*

*Sem/ 98 01 04 07 10 12

ANLP: Intro 83 88 92 94 97 00*

EMNLP: 96 97 98 99 00 01 02 03 04 05 06 07 08 09 10 11

Workshops: 90 91 93 94 95 96 97 98 99 00 01 02 03 04 05 06 07 08 09 10 11

SIGS: NEW ANN BIOMED DAT NEW DIAL FSM GEN HAN NEW LEX MEDIA MOL NEW MT NLL NEW PARSE MORPHON NEW SEM SEMITIC NEW SLPAT WAC

Other Events

 $\textbf{COLING:} \ \underline{65} \ \underline{67} \ \underline{69} \ \underline{73} \ \underline{80} \ \underline{82} \ \underline{84}^{\star} \ \underline{86} \ \underline{88} \ \underline{90} \ \underline{92} \ \underline{94} \ \underline{96} \ \underline{98}^{\star} \ \underline{00} \ \underline{02} \ \underline{04} \ \underline{06}^{\star} \ \underline{08} \ \underline{10}$

HLT: 86 89 90 91 92 93 94 01 03 04 05 06 07 08 09 10 12

IJCNLP: 05 08 09* 11

LREC: 00 02 04 06 08 10

PACLIC 95 96 98 99 00 01 02 03 04 05 06 07 08 09 10 11

Rocling Intro 88 89 90 91 92 93 94 95 96 97 98 99 00 01 02 03 04 05 06 07 08 09 10 11

TINLAP: 75 78 87

Donors Needed: COLING-65, any missing COLING

*: denotes a joint meeting

» Toggle Notes

Join the Association for Computational Linguistics (ACL): Benefits include discounts on confe

» Toggle Copyright and Credits

Min-Yen Kan

Graph (Editor, 2008-) / Steven Bird
Graph (Editor, 2001-2007)

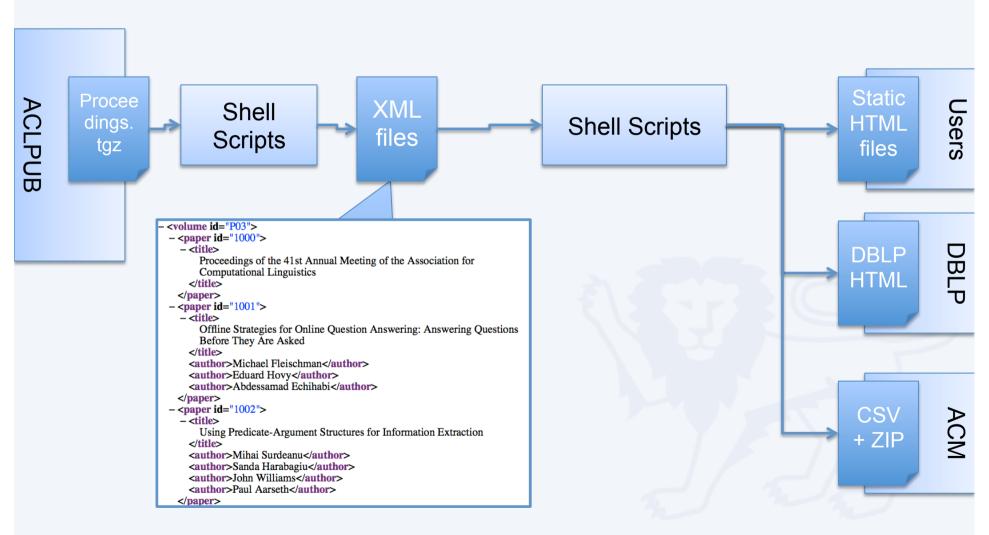
ALTA <u>Intro</u> 03 04 05 06 07 08 09 10 11 RANLP 09 11

MUC: 91 92 93 95 98 Tipster: 93 96 98 In Progress: Finite String

- Initiative started in 2001
- Mission: to preserve ACL's scientific legacy
- Open-access repository



Version 1 Architecture





Anthology XML format

- Central data structure for ACL publications
 - Describe metadata for each publication
 - Unique identifier (ACL Anthology ID)
 - The canonical record
- But:
 - No DTD, often doesn't validate as XML
 - Hard to inventory or ask useful questions of the data
- Probably has outlived its usefulness



Anthology Version 2

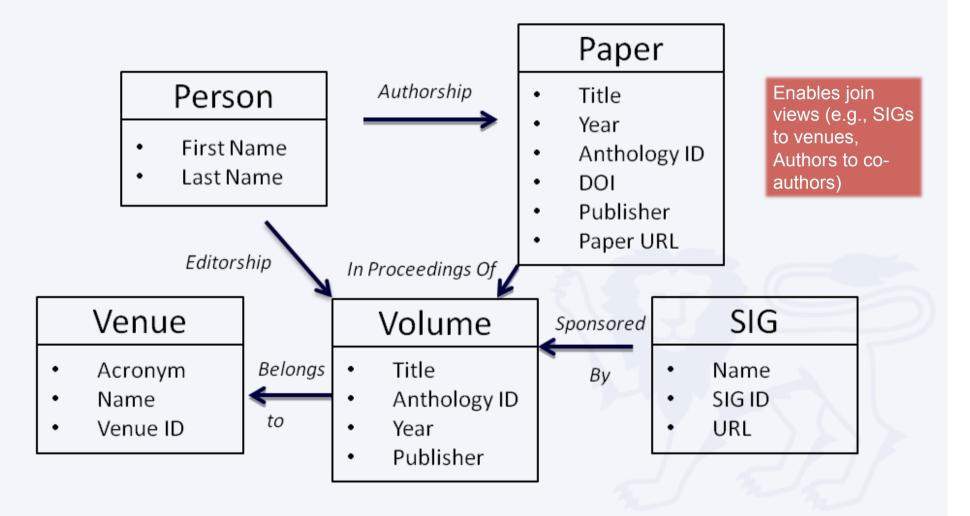
Have already met the earlier mission goals, so it's time to ...

Revise our mission

- Use a proper data model
 - Allows more first class objects (venues, authors as well as papers)
- Use contemporary technology
 - Ruby on Rails (MVC architecture for data-backed web application)
 - Faceted Search (via Blacklight and Solr)
- Incorporate user content

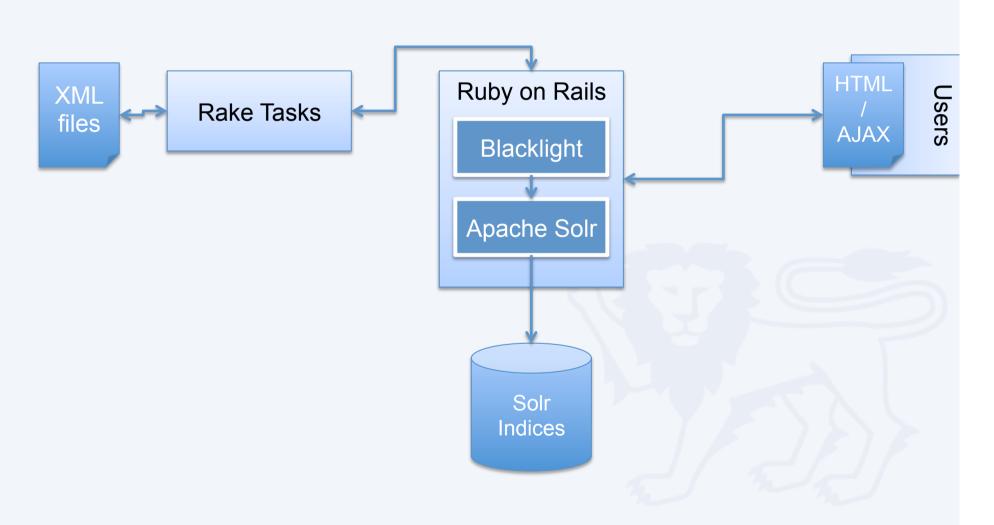


Version 2 Data Model





Version 2 (Beta) Architecture





Usability – Front End Changes

- Faceted Search and Discovery
- Author, Venue and Publication pages
- Post-publication revision by authors
- Incorporate readership feedback
- Integrate programmatic contributions



ACL Anthology

::Faceted Browsing:: Venue Publication Year Limit Current results range from 1965 to 2012 View distribution Authors 🖾 SIG 🖽 sigdat (555) signII (519) siggen (402) sigdial (383) sighan (284) siglex (269) sigmt (220) sigsem (191) sigparse (106) sigmorphon (96) semitic (83) sigann (68) sigbiomed (47) sigwac (17) Attachments 🚨 Attachment (23) Dataset (21) Software (13) none (20,375)

	in All Fields 💠 Search
Advanced search	

Welcome to the ACL Anthology

ACL Anthology currently hosts over 19,200 papers on the study of computational linguistics. Subscribe to the mailing list to receive announcements and updates to the Anthology.

Recent News:

- The June issue of the Computational Linguistics journal, is now available.
- Proceedings of the 48th Annual Meeting of the Association for Computational Linguistics, is now available

Popular Papers this week	Popular Authors this weel
Measuring Text Reuse	 Olga Batiukova
Proceedings of the Third International Workshop on Paraphrasing (IWP2005)	Sheng Li
Proceedings of the Human Language Technology Conference of the NAACL, Companion Volume: Tutorial Abstracts	Akihiro Tamura
Sentence Boundary Detection and the Problem with the U.S.	R. Brodersen
Instance Based Lexical Entailment for Ontology Population	Satoshi Sekine
Named Entity Recognition: A Maximum Entropy Approach Using Global Information	Lance Ramshaw
Automatic Verb Classification Based on Statistical Distributions of Argument Structure	Anil Kumar Singh

Browse

ACL Events

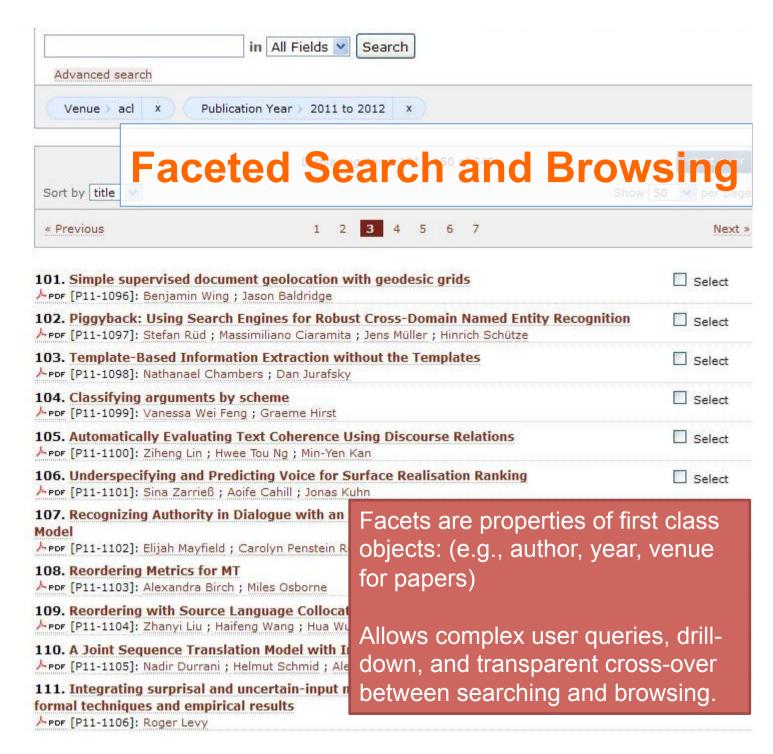
Journal:	Intro FS MT&CL 74-79 80 81 82 83 84 85 86 87 88 89 90	91 92 93 94 95 96 97 98 99 00 01 02 03 04 05 06 07 08 09 10 11 1 12 12
ACL:	Intro 79 80 81 82 83 84* 85 86 87 88 89 90 91 92 93 94	95 96 97* 98* 99 00 01 02 03 04 05 06* 07 08* 09* 10 11
EACL:	Intro 83 85 87 89 91 93 95 97* 99 03 06 09	
NAACL:	Intro 00* 01 03 04 06* 07* 09* 10*	
SemEval:	98 01 04 07 10	Faceted Search / Brows
ANLP:	Intro 83 88 92 94 97 00*	 Use Statistics
EMNLP:	01 02 03 04 05 06 07* 08 09 10 11	· USE Statistics

Auxiliary Content Workshops: 90 91 93 94 95 96 97 98 99 00 01 02 03 04 05 06 07 08 0

SIGs: ANN BIOMED DAT DIAL FSM GEN HAN LEX MEDIA MOL MT NLL PARSE MORPHON SEM SEMITIC WAS

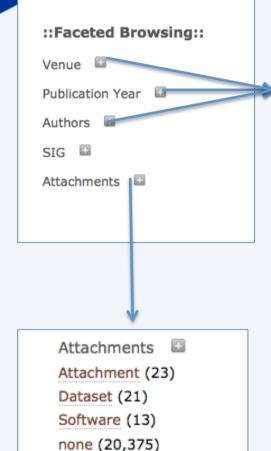
Other Events

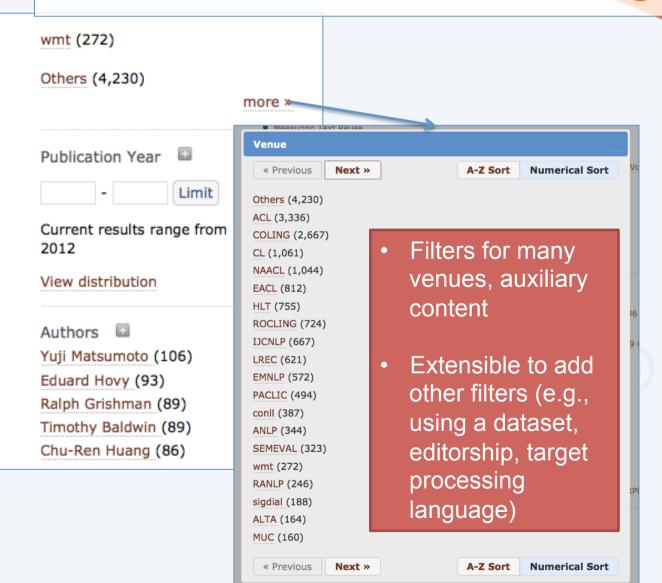






Faceted Search and Browsing







Readership: Use Statistics

Popular Papers this week

- Measuring Text Reuse
- Proceedings of the Third International Workshop on Paraphrasing (IWP2005)
- Proceedings of the Human Language Technology Conference of the NAACL, Companion Volume: Tutorial Abstracts
- Sentence Boundary Detection and the Problem with the U.S.
- Instance Based Lexical Entailment for Ontology Population
- Named Entity Recognition: A Maximum Entropy Approach Using Global Information
- Automatic Verb Classification Based on Statistical Distributions of Argument Structure

Popular Authors this week

- Olga Batiukova
- Sheng Li
- Akihiro Tamura
- R. Brodersen
- Satoshi Sekine
- Lance Ramshaw
- Anil Kumar Singh

Incorporate readership usage about downloads and page views



Author (and Venue) pages

Popular Co-Authors

Dan Klein (2)
Benoit Favre (1)
James Zhang (1)
John DeNero (1)
Taylor Berg-Kirkpatrick (1)
Yang Liu (1)

Venue

others(2) acl(1) naacl(1) wmt(1)

Start Over

Dan Gillick

Publications

2011

With popular co-authors and publication venues

Jointly Learning to Extract and Compress

2010

Non-Expert Evaluation of Summarization Systems is Risky

2009

- Sentence Boundary Detection and the Problem with the U.S.
- A Scalable Global Model for Summarization

2006

Why Generative Phrase Models Underperform Surface Heuristics



Social Media Integration

Bibliographic Metadata Export

(supports more formats via MODS Bibliographic metadata exchange format)

Anthology ID: P11-1100

Author(s): Ziheng Lin ; Hwee Tou Ng ; Min-Yen

Year: 2011

Event: ACL

Volume: Proceedings of the 49th Annual Meet

Linguistics: Human Language Techno

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O Ris

EndNote

Erratum: None

Add New Comment

Type your comment here.

Contributed Information

• aan_page

ACL Anthology

Per-Publication View

User
Bibliographic
Data
Correction and
Contribution

Social Commenting

Programmatic
Contributed Data
(AAN webpage
shown as an
example)

commenting framework



Erratum*:

Davised Version* Send to editor

User Contributed Data: Post publication revision, addition

		ation revision, additi
Anthology ID:		
	Ying Chen; Sophia Yat Mei Lee; Shoushan Li;	Chu-Ren Huang
Year:	2010	
Event:	Non ACL	
Bib Export Formats:	○ Bib ○ Ris ○ EndNote ○ Word	
Erratum:	None	
Edit this paper's metada	ta 🗏	
prevent unauthorized change	details and fill in the details of the necessary char es, the editors review such requests manually, an d and reflected in the Anthology.	
		Report errors in the metadataSupply revisions and errata,
Event: Volume:		software dataset links post- publication



Programmatic contributions

We are most excited about the opportunities here!

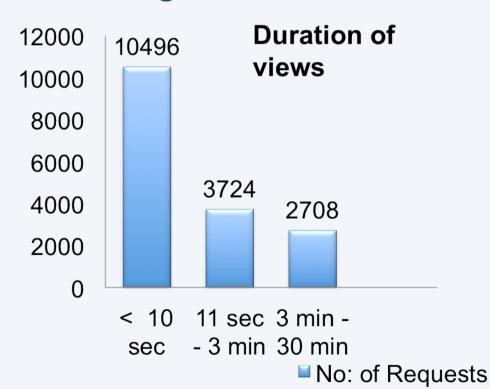
- Apply NLP to our own works
- Allow automated agents to publish supplementary material for a paper
- Agents provide information in an XML format

 Currently support per-paper contributions such as text, hyperlinks and embedded webpages



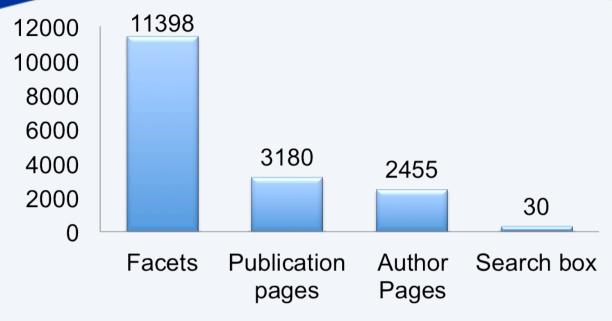
Impact and usage of V 2 interface

- Analyzed application and search logs over 5 days
- Received ~16k page views, compared to ~7k views on original website



Notable ratio (16%) of longer visits support that new features encouraged more user engagement





- No: of Requests
- Majority of requests (68%) use faceting feature
 - Supports claim that faceted browsing is preferable to search choice in casual contexts
- Average response time is 0.73 seconds, average load time 5.6 seconds
 - Need better scaling on database, current work to migrate to cloud architecture (Amazon EC2)



Conclusion and outlook

Collaborate with the community to incorporate programmatic contributions into the Anthology

Especially R50 contributions!

Taking back search from Google's custom search also means that our search logs can be provided to our own community for research

Tighter integration with other ACL resources such as the ACL Anthology Network and the ACL Searchbench