Cornell’s Institutional Repositories

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Outline

• Goals for Institutional Repositories at Cornell University
• Institutional Repositories contents
• Evaluation
• Acceptance
Goals for Cornell University Library
Institutional Repositories

• Provide open access to the scholarly output of Cornell University (“Open Access Repository” and “techreports”)
• Provide open access to the scholarly output of the disciplines of physics, mathematics, computer science, and quantitative biology (arXiv.org)
  - Provide a service to these disciplines
• We view our repositories as responses to the crisis in scholarly communications
Cornell University Library's Institutional Repositories

- **http://techreports.library.cornell.edu**
  - Software: Digital Publishing System (DPubS)

- **Open Access Repository**
  http://dspace.library.cornell.edu
  - Software: DSpace

- **arXiv (disciplinary repository)** http://www.arxiv.org
  - Software: arxiv system
• **Uses**
  - Computer Science Department Technical Reports (all have also been imported to arXiv.org)
  - Computing and Information Science Technical Reports (all have also been imported to arXiv.org)
  - Cornell Theory Center Technical Reports
  - History and Theory of Machines and Mechanisms Technical Reports
  - Library Papers and Preprints
  - Watershed Management Papers

• **Over 2000 articles (majority in Computer Science)**
  - Self selected, self managed, self contributed, system administration by Cornell University Library
Open Access Repository

• **Uses**
  - Bio and Environmental Engineering Student Projects
  - Cornell University East Asia Papers
  - Cornell University Graduate School (largest collection)
  - Cornell University Library
  - Cornell University Professional Degree Programs
  - Cornell Plantations (see for example: http://dspace.library.cornell.edu/handle/1813/244
  - Internet-First University Press
  - And many more

• **Over 2500 submissions**

• **Self selected, self managed, system administration by Cornell University Library**
www.arxiv.org

• **Uses**
  - Preprints of Physics (largest segment of arxiv)
  - Preprints in Computer Science
  - Preprints in Mathematics
  - Preprints in Quantitative Biology

• **Over 350,000 objects (increasing by ~200 objects/day)**
  - Self selected, self contributed, administered by Cornell University Library
  - 70% of articles ultimately appear in peer reviewed journals
  - 50% of preprints are contributed from outside the U.S.
Measures of success

• Number of submissions
  - arXiv: submissions increasing at a rate of ~50/day/year for the past 3-4 years
  - Open Access Repository: submissions grew from 0 to more than 2500 in the four years since creation
  - techreports: relatively stable increasing by about 30/year, by a few Computer Science faculty members
    • Most Computer Science Faculty are now submitting to arXiv in preference to techreports

• Number of Downloads
  - arXiv.org: ~20,000/day
  - Open Access Repository: ~2600/day
  - Techreports: ~860/day
Acceptance and Encouragement

• Acceptance is related to discipline
  - and possibly the age of the submitter?
• Encourage the use of disciplinary and institutional repositories by outreach to Faculty
  - Departmental talks
  - Symposia and person-to-person contacts with faculty
• Policies enacted at Cornell
  - Archive policy for the Cornell Computer Science Department
  - Faculty Senate Resolution on Open Access Publishing

• Education regarding 'green' publishers
  - http://www.sherpa.ac.uk/romeo.php
• Education regarding copyright
  - http://www.copyright.cornell.edu
A Few Lessons Learned

• Learn Patience
• Disciplinary repositories are generally more successful than institutional ones
  - Faculty have greater allegiance to their disciplines than to their institutions or departments
• Focus initial efforts in one or two areas
  - Avoid the shotgun approach
  - Match your level of commitment with resources available
• Set administrative/library policies
• Have communities set and maintain their own policies and develop selection criteria
• Multiple repositories increase exposure
  - arXiv and techreports for Computer Science papers
  - Exposure encourages contribution
• Learn Patience
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