

## The ACM Digital Library Roadmap

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# The ACM Digital Library: Vision, Goals and Strategy



#### • DL Vision Statement:

"A community engaged with a repository of resources to support computing research and practice."

#### • High-Level Goals:

- Expand the content
- Further personalize and enhance the user experience

#### Product Strategy:

- Leverage the landscape
- Focus development effort on unique innovation

## **ACM Digital Library: The Vision**

"A community engaged with a repository of resources to support computing research and practice."

- Community is key concept
- Upstream/Downstream engagement
- Repository vs. Archive
- Engagement through content and functionality

#### ACM Digital Library: High-Level Goals



- Broaden coverage of high-quality output in computing and related interdisciplinary spaces.
- Go beyond "published literature" to include pre-print, grey literature, software, data, videos, events, etc.

#### Personalize & Enhance User Experience:

- Develop "topic" based ontology to complement the ACM Computing Classification System
- Enhance recommendation systems
- <u>"Upstream" integration</u>: engage at collaboration, pre-publishing and content creation stage
- "Downstream" integration: engage at discussion, recommendation and promotion stage

#### **ACM Digital Library: Product Strategy**

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- Leverage the Landscape:
  - Use as few "wheels" as possible; invent as few "wheels" as possible
  - Integrate and aggregate where possible
  - Adopt industry-standard services
- Focus development on unique innovation.

#### ACM Digital Library: The Roadmap

- The Roadmap: a high-level set of enhancements to define the direction of the DL in the short, medium and long-term.
- Major Areas:
  - Core Functionality
  - Content Expansion
  - Content Organization & Exposure
  - Personalization
  - Analytics

#### The Roadmap: Core Functionality

- <u>UX/UI</u>: revamp current interface to improve user experience
- Article Formats: beyond PDF; enhanced interactivity
- Search Capability: Improve to include results beyond articles
- Authentication: expand existing methods
- Annotation & Discussion: private and shared, across all content

#### The Roadmap: Content Expansion



- <u>Software & Data</u>: expand ability to store, serve and integrate software and datasets
- Pre-Print: build a pre-print service across all of computing
- Other Publication Sources: identify and incorporate new publications
- Open Sources: integrate other resources and content types, such as patents, talks, grants, awards, etc.

#### The Roadmap: Content Organization & Exposure



- <u>Conference-centric View</u>: represent the event and not only the publication artifact
- <u>Video Interface</u>: better represent video content
- Author Pages: expand discoverability and capabilities
- <u>Curated Collections</u>: automated and manually maintained

## The Roadmap: Personalization



- <u>Topics</u>:
  - define high-level ontology
  - build automatic topic modeling
- <u>Recommendation</u>: People, Events, Articles, Videos, Software, Data, Discussions, etc.
- <u>Personalization</u>: personal profiles based on past user interactions

## The Roadmap: Analytics

- Expand analytics to evaluate and engage with:
  - content
  - people
  - institutions
  - events
- Incorporate new analytics tools



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# Thanks!

