

Querying the Past, Present, and Future: Where the Web is, and where the Web will be

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Panel Organization

- **Moderator (8 minutes)**
 - Introduce panelists
 - Opening the panel and establish context for the panel
 - Raise three important questions for panel discussions
- **Panelists (10 minutes each, 40 minutes total)**
 - Each panelist presents his/her position statements regarding the three panel questions from his/her expertise, background and to panelists
 - Answers from panelists and audiences research interests
- **Open Floor for Panel Attendees (30-40 minutes)**
 - Questions and comments from attendees
- **Closing Remarks (2 minutes)**
 - Each panelist to give one take-home message

Panel Theme: An Introduction

Querying the Past, the Present, and the Future: *Where the Web is and Where the Web will be*

- How many different ways do we wish to **query the Web?**
- Can we use the Web to query **the Past, the Present, and the Future** content?

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Querying the Web

- **How do we query the Web today?**
 - Access Information by Searching the Web
 - Access Information by Browsing & Navigating the Web
 - Access information while on the move (growing trend)
 - Access information with device-spanning experiences
- **What query models do we use to access information and query the Web?**
 - Request-respond information delivery model
 - Passive, ad-hoc
 - Suitable for querying the present and the past content
 - Publish-subscribe information delivery model
 - Active, event-driven
 - Suitable for querying the future content
 - future information updates
 - future information change patterns
 - future new information on the Web ...

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Past, Present, and Future

- **Querying the Past Web Content**
 - **Past** (evolution) **history of the present Web data** (pages, contents and links contained in pages)
 - **Past web content** that have been **removed from its birth Web site**
- **Observation**
 - There are some dedicated efforts for querying the past Web content:
 - Web archival, Digital data preservation, ...
- **Panel discussion**
 - Do we want to query about the past content? Why and what?

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Past, Present, and Future

- **Querying the Present Web**
 - Searching the Web by keywords
 - Browsing & Navigating by following links or random walk
 - Exploiting the Web via remote invocation standards such as SOAP, WSDL, ...
 - Accessing the Web while on the move – richer and device-spanning Web experiences
- **Observation**
 - W3C efforts in unifying the Web access standard
 - The request-respond query model (ad-hoc, passive information delivery protocol) is the dominating protocol for querying the present Web
- **Panel discussion**
 - Can we further enhance the accessibility of the present web? Why and How?

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Past, Present, and Future

- **Querying the Future content**
 - Future updates and change patterns of the present Web data
 - Future new content either in the present Web context or in completely new context
- **Observation**
 - There are some site-specific efforts on providing notification of future content but very limited in terms of personalization, general coverage, and user convenience
 - request-respond query model is no longer sufficient
- **Panel discussion**
 - Should querying the future content be an integral part of the Web accessibility? Why and how?

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Panel Discussion: Focus

Can the Web be used as a common infrastructure for querying the past, the present, and the future?

- ◆ How should we query the past content?
- ◆ Can the current technology of querying the present Web help?
- ◆ Should the Web become an Active Web and an Event Web? Why and how?

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