



XML-based SDI

- Selective Dissemination of Information
 Distribute the right information to users based upon their profiles (interests)
- Approaches in the Information Retrieval (IR) community

Match keywords: Boolean or Similarity-based

Approaches in the database community
 Use queries in the context of Continuous Queries (CQ)

Efficient Filtering of XML Documents for Selective Dissemination of Information

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XML-based SDI

- Why XML?
 - eXtensible Markup Language derived from SGML
 - Semi-structured
 - Self-described

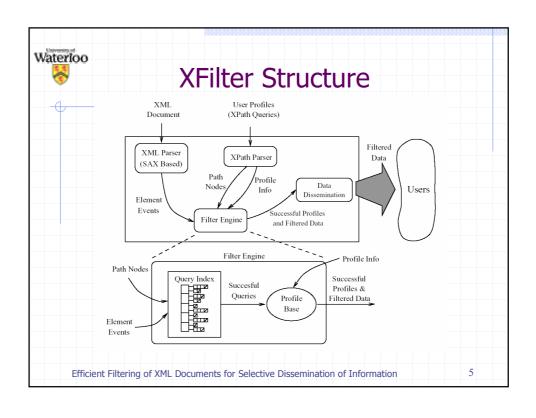
XML becomes a standard format in data exchange
The cost: the complexity to process XML documents

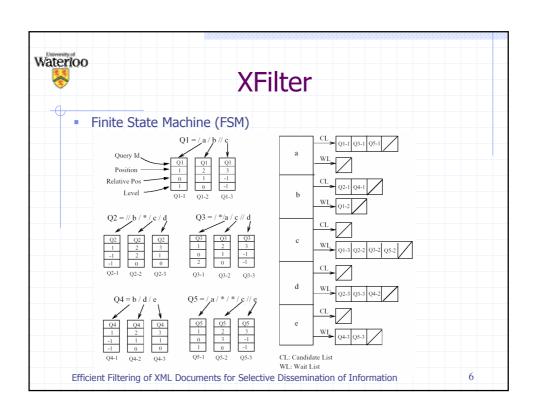
XPath as a Profile Language
 A language to navigate or address parts in an XML documents

"/catalog/product//name"

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Enhanced Filtering Algorithms List Balancing Skewed lengths of the Candidate Lists do not provide little selectivity Select a "pivot" as the start element node Prefiltering The idea: pre-delete the queries that are impossible to match the document

