



An investigation of web crawler behavior: characterization and metrics

Marios D. Dikaiakos^{a,*}, Athena Stassopoulou^b, Loizos Papageorgiou^a

^aDepartment of Computer Science, University of Cyprus, P.O. Box 20537, Nicosia 1678, Cyprus

^bDepartment of Computer Science, Asercollege, P.O. Box 24005, Nicosia, Cyprus

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Abstract

In this paper, we present a characterization study of search-engine crawlers. For the purposes of our work, we use Web-server access logs from five academic sites in three different countries. Based on these logs, we analyze the activity of different crawlers that belong to five search engines: Google, AltaVista, Inktomi, FastSearch and CiteSeer. We compare crawler behavior to the characteristics of the general World-Wide Web traffic and to general characterization studies. We analyze crawler requests to derive insights into the behavior and strategy of crawlers. We propose a set of simple metrics that describe qualitative characteristics of crawler behavior, viz.: a crawler's preference on resources of a particular format, its frequency of visits on a Web site, and the pervasiveness of its visits to a particular site. To the best of our knowledge, this is the first extensive and in depth characterization of search-engine crawlers. Our results and observations provide useful insights into crawler behavior and serve as basis of our ongoing work on the automatic detection of Web crawlers.

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Keywords: Web characterization; Crawlers

1. Introduction

A *Web crawler* is a program that traverses the hypertext structure of the Web, starting from a ‘seed’ list of hyperdocuments and recursively retrieving documents accessible from that list [7,13,29]. Web crawlers are also referred to as robots, wanderers, or spiders. All major search engines employ powerful crawlers that traverse the Internet continuously, trying to discover and retrieve as many Web pages as possible. More recently, crawler systems have been used also as tools for focused crawling, for shopbot implementation, and for supporting added-value services on the Web (portals, personalized and mobile services, etc.) [14,19,29]. As a consequence, the number and the variety of active robots operating on the Internet increases continuously, resulting to a noticeable impact on WWW traffic and Web-server activity.

In this paper, we seek to characterize the behavior of crawlers that belong to popular Web-search engines. In particular, we investigate statistically various properties of crawler-induced HTTP traffic, such as the distribution of HTTP requests and reply-codes, the type and size of resources sought and retrieved, the distribution of crawler requests across a Web site, the frequency and pattern of crawler re-visits, and the temporal characteristics of crawler activity. We use these analyses to discover, characterize and compare the capabilities of different crawlers regarding their usage of caching, their capability to detect and avoid broken or dead links, their success in discovering Web-site resources, etc. Furthermore, we propose simple metrics that can be used to describe concisely aspects of crawling strategy and to compare basic crawler characteristics. Characterizing crawler activity is important as it enables researchers to: (i) estimate the impact of robots on the workload and performance of Web servers; (ii) investigate the contribution of crawlers to WWW traffic; (iii) discover and compare the strategies employed by different crawlers to reap resources from the Web, and (iv) model the activity of robots to produce synthetic crawler workloads for simulation studies. Finally, characterization can be the basis for the automatic detection of robots.

For the purposes of our study, we focus on the characterization of five crawlers that belong to well-known

* Corresponding author. Tel.: +357 22862700; fax: +357 22892701.
E-mail addresses: md@ucy.ac.cy (M.D. Dikaiakos), stassopoula@asercollge.ac.cy (A. Stassopoulou), loipap@ucy.ac.cy (L. Papageorgiou).

An Investigation Of Web Crawler Behavior Characterization

Jin-Ying Zhang



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Table of Contents An Investigation Of Web Crawler Behavior Characterization

1. Understanding the eBook An Investigation Of Web Crawler Behavior Characterization
 - The Rise of Digital Reading An Investigation Of Web Crawler Behavior Characterization
 - Advantages of eBooks Over Traditional Books
2. Identifying An Investigation Of Web Crawler Behavior Characterization
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an An Investigation Of Web Crawler Behavior Characterization
 - User-Friendly Interface
4. Exploring eBook Recommendations from An Investigation Of Web Crawler Behavior Characterization
 - Personalized Recommendations
 - An Investigation Of Web Crawler Behavior Characterization User Reviews and Ratings

- An Investigation Of Web Crawler Behavior Characterization and Bestseller Lists
- 5. Accessing An Investigation Of Web Crawler Behavior Characterization Free and Paid eBooks
 - An Investigation Of Web Crawler Behavior Characterization Public Domain eBooks
 - An Investigation Of Web Crawler Behavior Characterization eBook Subscription Services
 - An Investigation Of Web Crawler Behavior Characterization Budget-Friendly Options
- 6. Navigating An Investigation Of Web Crawler Behavior Characterization eBook Formats
 - ePub, PDF, MOBI, and More
 - An Investigation Of Web Crawler Behavior Characterization Compatibility with Devices
 - An Investigation Of Web Crawler Behavior Characterization Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of An Investigation Of Web Crawler Behavior Characterization
 - Highlighting and Note-Taking An Investigation Of Web Crawler Behavior Characterization
 - Interactive Elements An Investigation Of Web Crawler Behavior Characterization
- 8. Staying Engaged with An Investigation Of Web Crawler Behavior Characterization
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers An Investigation Of Web Crawler Behavior Characterization
- 9. Balancing eBooks and Physical Books An Investigation Of Web Crawler Behavior Characterization
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection An Investigation Of Web Crawler Behavior Characterization
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine An Investigation Of Web Crawler Behavior Characterization
 - Setting Reading Goals An Investigation Of Web Crawler Behavior Characterization
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of An Investigation Of Web Crawler Behavior Characterization
 - Fact-Checking eBook Content of An Investigation Of Web Crawler Behavior Characterization
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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