



An investigation of web crawler behavior: characterization and metrics

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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

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