ABSTRACT

Using Autonomous Collaborative Software Agents
To Create
A Personal Internet Search Assistant

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With the amount of information on the Internet growing at a rapid rate, users are finding it increasingly difficult to locate relevant data in a timely and effortless fashion. All too often, search engines provide large amounts of information that do not meet the user's needs. As a result, important data can be missed as the user tries to narrow the search and hence reduce the number of unsuccessful hits. This paper describes the Personal Internet Search Assistant (PISA) system, which simplifies the process by using a preemptive approach to searching. The system consists of a set of cooperative agents that monitor the user's Internet browsing behavior. This monitoring provides the search attributes that will enable PISA to seek out the relevant information on its own.

Keywords cooperative agents, Internet, Java, software agents