Papyres: a Research Paper Management System

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Abstract

In the context of a research and development department of an enterprise, researchers regularly access, review, and use large amounts of literature, yet none of the existing tools and solutions provide the wide range of functionalities required to properly manage these resources. Indeed, bibliography management systems manage the references and citations but fail to help researchers handle and locate resources. On the other hand, research paper recommendation systems and specialized search engines help researchers locate new resources, but again fail to help researchers manage the resources. Finally, Enterprise Content Management systems offer the required functionalities to manage resources and knowledge, but are not designed for research literature. In this work we propose a new class of management systems: Research Paper Management Systems. Moreover, to illustrate our approach we highlight our system Papyres which combines various tools and functionalities, including Web2.0 technique, enabling researchers to maintain and manipulate bibliographies, as well as to manage and share resources and knowledge. Finally, we report on the implementation and validation of Papyres.

1 Introduction

In a research and development department, researchers regularly access, read and keep research papers of interest. With the advent of digital libraries, such as the IEEExplore [1], the ACM digital libraries [2] and SpringerLink [3], most of these research papers can be accessed online and stored on personal computers in an electronic format. The storage and manipulation of these articles in their electronic format is namely easier than in their traditional paper format. Indeed, bibliography management systems help manage the references, and seamlessly format paper references into various formats (IEEE, APA, etc.). Specifically, systems such as EndNote [4], CiteULike [5] and BibTeX [6] tools (BibTool, Bibshare, WinBib, etc.) allow researchers to enter the articles' information, even add a link to the document stored within a folder for quick access. Moreover, they allow researchers to group articles into libraries, even share the references within groups. Nonetheless, bibliography management systems do not provide important functionalities required by researchers. Particularly, researchers regularly need to locate new resources. Indeed, with digital libraries and the wide spread of high quality conferences and journals researchers are presented with a wide variety of resources, making the process of selecting the papers of interests a hard and daunting task, hence the need for research paper recommendation systems. In short, recommender systems offer the user with an automated recommendation from a large information space [7]. Specifically, systems such as *Knowledge Sea II* [8] and *TechLens* [9] offer paper recommendation based on various consideration. For instance, Knowledge Sea II treats research papers as pedagogical resources, allowing users to annotate and review papers and then uses these reviews to help researchers locate papers of their interest. On the other hand, TechLens uses the users' references to build a profile upon which the recommendations are based. Nonetheless, there are other aspects of research papers that are still not addressed. For instance, when a researcher reads a paper, he evaluates the content, criticizes the statements and arguments and analyzes the testing procedure and the findings. Yet, none of the bibliography management systems nor the recommender systems offer a set of complete tools for researchers to review and keep track of such analysis information. Indeed, such information is important, since it reflects parts of the researcher's *implicit* knowledge. Specifically, when a researcher reviews a paper, he utilizes some aspects of his knowledge, such as how to analyze and criticize the content of the research paper, or even his familiarity with other related research to evaluate the current work he is reviewing. ECM (**Enterprise Content Management**) systems, such as *LiveLink* [10], offer tools and functionalities to manage such implicit knowledge. Nonetheless, these tools are designed for a corporative environment, and are created specifically to manage internal documents, projects, workflow, etc. Thus, although these systems offer many functionalities, most are not directly related to research, and the document management schemes do not take into account the specificities of research papers.

As such, in this paper we propose a new class of systems, *Research Paper Management Systems*, and we highlight our system *Papyres* to illustrate the approach. Research Paper Management Systems combine the bibliography functionalities along with paper recommender techniques and ECM document management tools, in order to provide a set of functionalities to locate research papers, handle and maintain the bibliographies, and to manage and share knowledge about the research literature. Moreover, Papyres promotes the Web2.0 *harnessing the collective intelligence* approach [11], and employs Web2.0 techniques and technologies such as *Tagging*, *Rating*, and *RSS* (Really Simple Syndication). In this work, we use the notation *resource* to refer to the various kinds of research literature (conference paper, journal paper, books, reports, etc.).

Research Paper On Management Styles

AN Whitehead

Research Paper On Management Styles:

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