Introduction of NSFC Project Resource Management System

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Abstract. The National Natural Science Foundation of China (NSFC) is a governmental organization which is in charge of managing national natural science projects. Until now, NSFC has accumulated very huge amount of academic and management data ranging from projects, experts, affiliations and achievements (e.g. papers, technical reports, patents, dissertations and awards etc.) and various project reports. Thus, management of project relevant achievements such as publication, awards, books, and patents is becoming more and more important. In this paper, we make an introduction of our NSFC project resource management system, which has been developed in the last 10 years. Some key system functions such as project based searching, achievement based searching, and statistical displaying functions are well explained.

Keyword: NSFC, Project management, Information sharing system, Searching

1 Introduction

The National Natural Science Foundation of China (NSFC) is a governmental organization which is in charge of managing national natural science projects. In the past 30 years, NSFC has been playing a very crucial role on supporting basic research, fostering talented researchers and scientists, developing international cooperation and promoting socioeconomic development etc. [1]. Until now, NSFC has accumulated very huge amount of academic and management data ranging from projects, experts, affiliations and achievements (e.g. papers, technical reports, patents, dissertations and awards etc.) and various project reports. [2]

As a member of Global Research Council (GRC), NSFC has the duty to construct a NSFC project-oriented basic research knowledge library platform which is open to the nationwide researchers and the mass as an academic resource sharing system.
The “NSFC project resource management system” (http://npd.nsfc.gov.cn, NPD for short) was firstly open on May 2006 [3], with main purpose to increase transparency of NSFC project management, to stimulate basic research information sharing and utilization, and to strengthen supervision and academic moral construction.

2. Related Work

Table 1 lists some similar websites to our NSFC project resource management system. We mainly studied the first two websites, since their functions and orientation are close to our NSFC. We found that most of the contents therein are text-based material, including downloadable PDF files, pictures and few video documents.

Table 1. Some similar websites

<table>
<thead>
<tr>
<th>Website links</th>
<th>Brief description</th>
</tr>
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<tbody>
<tr>
<td><a href="http://www.research.gov">www.research.gov</a></td>
<td>The National Science Foundation (NSF) official website.</td>
</tr>
<tr>
<td><a href="http://www.ec.europa.eu/research">www.ec.europa.eu/research</a></td>
<td>The European Commission (EC) research and innovation official website.</td>
</tr>
<tr>
<td><a href="http://www.research.google.com">www.research.google.com</a></td>
<td>Google’s research and academic website.</td>
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<tr>
<td><a href="http://www.research.microsoft.com">www.research.microsoft.com</a></td>
<td>Microsoft’s research and academic website.</td>
</tr>
</tbody>
</table>

3 Project based Searching Function

Fig. 1 shows the homepage of our NSFC project oriented information sharing system. As can be seen from the top boxes, searching function mainly include project searching and achievement searching. Besides, some statistics analysis is also provided. From this section, both these functions will be explained.
It is worth noting that there are about 116608 finished projects and 1669928 achievements until now. For the project searching, it can be further divided into granted project searching and finished project searching. The granted projects include both recent undergoing projects and finished projects with final project report. Project searching can also be classified into research area based searching, and project type based searching.

3.1 Finished project searching

Fig. 2 shows the webpage of finished project searching, where users can search their interested items such as granted project number, project name, PI name, affiliation, and research area etc. Detailed research area covers 8 major natural science areas which are mathematics and physics, chemistry, life science, earth science, engineering and material science, information science, management science and medicine.
3.2 Awarded project searching

Awarded project is an extension of finished project searching, where more undergoing projects are added into the searching database. The main difference between them is that there is no detailed information about current ongoing projects such as final project report or academic achievements etc. Once the awarded project finishes, there is one index label so that users can click it to see detailed information of this project.

3.3 Achievement based searching

Fig. 3 gives the webpage of our achievement based searching, where some important searching items include author name, paper title, publication journal/conference name, published data (y/m/), page number and affiliation etc.
3.4 Statistical display

Fig. 8 gives the webpage of statistical display function of system, when users choose year from 2006 to 2013 and click the “year based” statistical item. We can see the awarded project number in different year, which can be dynamically adjusted.
4 Conclusion

With the fast growing of NSFC projects, relevant achievements are also increasing very faster. Thus, management of project relevant achievements such as publication, awards, books, and patents is becoming more and more important. In this paper, we make an introduction of our NSFC project resource management system, which has been developed in the last 10 years. Some key system functions such as project based searching, achievement based searching, and statistical displaying functions are well explained.

References