A Study on the Design, Development and Hosting Portal Subject Gateway of Mathematics

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Abstract

This paper explains the need and scope of creating mathematical subject based gateway related to domain of specific subject content. There are several resources coming up for the emerging fields both in open sources and in conventional methods. In this paper, the goal, principle and contents for constructing mathematically related information on key disciplines are presented. The resource selection criteria and standards for web-based resource description are also described. . In the recent decades subject based content collection gateways are increasing around the globe. This paper explains about one such gateway related to Mathematical science.

Keywords

Design, Portal, Subject Gateway, Mathematical Science

Electronic access

The journal is available at www.jalis.in

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INTRODUCTION

Subject gateways are services that provide access to Internet resources that have been reviewed, selected and described by the subject specialists. The exact selection criteria largely depends on the perceived usage base of the gateway, but typically include factors relating to the content and presentation of the resource and the integrity of the information and site provider . Subject gateways are almost always based on the manual creation of descriptive metadata and usually provide end users with both search and subject-browse facilities. The existence of rich metadata means that gateways can offer more sophisticated search options than other Web indexes. The application of subject classification schemes means that gateway services often provide hierarchical browse structures for browsing (Koch, 2000). As the Internet itself is constantly evolving, subject gateways also need robust collection development policies that include the regular checking and updating of resources included in the database.

OBJECTIVES OF THE STUDY

The study is contained to the following objectives

- As an aid to browsing, it is especially useful for users who are unexperienced or familiarized with the subject.
- To provide the information exclusively on mathematics to satisfy the subject specific needs of users.
- To filter and organize the scholarly open access resources on Mathematics.
- To identify the web links of scholarly open access resources on Mathematics.
- To boost the traditional library services with the Internet oriented services that can offer current resources to user community

METHODOLOGY

Making of the gateway for mathematical Resources is an information consolidation product and its preparation demands certain skill and knowledge.

- Identification of target users
- Planning of the gateway
- Study of subject as discussed with Experts.
- Identification of several information items available in Internet using various search engines.
- Selection of information sources

- Categorization and arrangement of information sources
- Finally presentation of sources i.e. subject gateway designed with the help of Webnode.com.

Steps of developing a subject gateway

- **Planning**: The purpose, goal(s), target audience, content needed and the overall style wanted are outlined. Hosting service free or commercial is also picked up.

- **What to Use:** What colors do we want to use? How to keep the look of our site consistent? Why content is so important? What graphics should we add? How will visitors navigate our site? How can we layout our pages?

- **COLORS:** One should learn about using color on the website, what the key to using color is, what are browser safe colors, and what colors to use and not to use.

- **Consistency:** One should learn why Website consistency is important and what roles our one's, colors, image styles, layout styles, navigation style, and footers play.

- **Content:** One should learn why one's Website content is considered the most important aspect building of a Website.

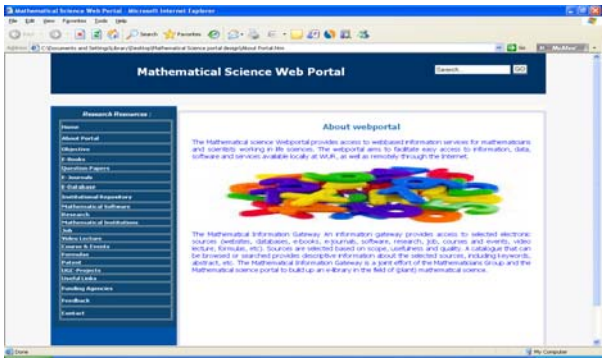
- **Graphics:** With a careful selection of icons, bullets, and bars one can give the site a personality all its own. One should learn how to use graphics properly on Website.

- **Navigation:** One should learn how to create a simple and effective system to navigate the website.

- **Gateway Style:** Style is defined through layout, design and personalization of Web pages. One should learn about the basic styles used for Website design and which style is best suited according to the requirement.

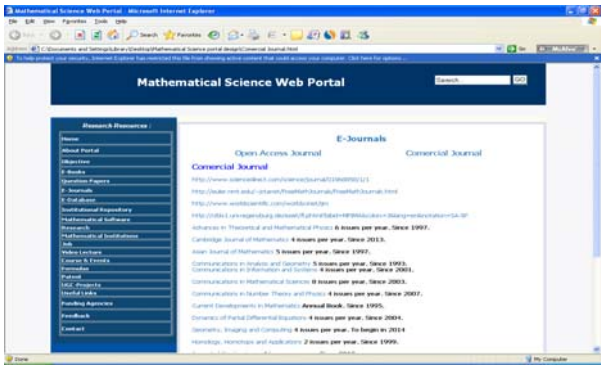
DESIGNING AND DEVELOPMENT OF MATHEMATICS GATEWAY

The following screen shot shows that the Mathematics Subject Gateway Home Page. This page contains links to the e-books, e-journals, e-theses , databases, course material, funding agencies, web tools, events and job opportunity



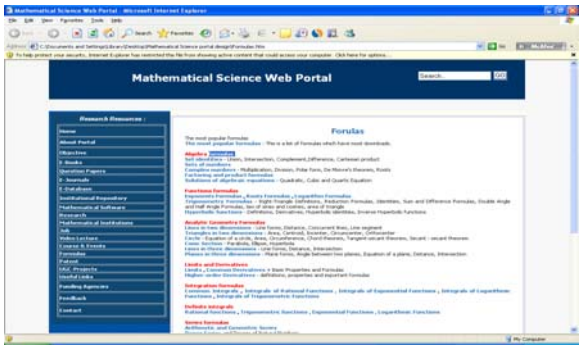
Open Access E-Books and E-Journals

E-journals and E-Journal pages provides the links to the various full text accesses of scholarly journal and books sites and that has been categorized by various subject headings in Mathematics for the easy access of users.

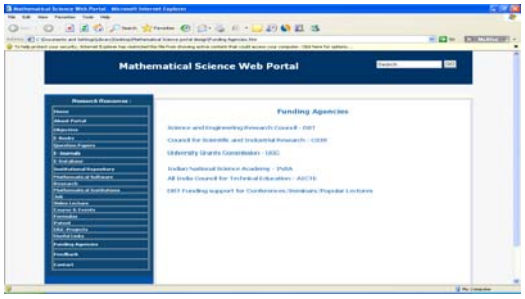


Mathematical Formula

Mathematical Formula is provides the links to the various formulas can accesses and that has been categorized by various publishers in Mathematics, the easy access for users.



Jobs and Feedback
In this page is many available of job oriented website see their, users click the website go to in our resume uploaded and email id then any job vacancy in the job announced the sent the our e mail id.



Features of subject gateways

- Each resource selected is evaluated against explicitly defined quality selection criteria.
- Resources are classified using a range of Schemes, e.g.-DDC, MESH.
- Metadata are provided based on a particular standard e.g. – Dublin core
- Written resource descriptions are provided for each resource, often by library subject specialists.
- Currency of resources is checked by link checking software (e.g. ROADS), databases such as OMNI.

CONCLUSION

The development of subject gateways in the Religious mathematics can be fulfilling the original purpose of providing resource descriptions, a trend towards additional services like providing content in form of articles or primary sources as well as providing specialized communications platforms in form of discussion forum and mailing lists can be observed. The designed gateway on Gateway linked with Bharathidasan University Library website in addition to direct access through web. Regular updates and Maintenance to be maintained by the University library as it will be one of the by Product of the web enabled Information Services.

Future plans include the updating of the Mathematics portal on a regular basis so as to include new information to meet the demands of the users. After the success of this portal, a demand has already come from other departments of the university to provide this service in their subject area as well.

Subject gateways have a short period of existence. All of them are in continuous evolution and improvement. They are very useful services, so it is essential that we make them known to our users and we favour their use in the search of information.

REFERENCES

1. Dempsey, L. (2000). The subject gateway: experiences and issues based on the emergence of the Resource Discovery Network. *Online information review*,*24*(1), 8-23.

2. Gunasekaran, M., Balasubramani, R., & Sivaraj, S. (2008). Usage of electronic journals through consortia by the students and members of faculty of Bannari Amman Institute of Technology, Tamil Nadu: a survey. *Indian Journal of Information Science and Services*, *2*(1), 52-57.

3. MacLeod, R. (2000). Promoting a subject gateway: a case study from EEVL (Edinburgh Engineering Virtual Library). *Online Information Review*, *24*(1), 59-64.

4. Manimekalai, A., Balasubramani, R., & Amsaveni, N. (2006). Internet use pattern among the students in Annamalai University. *SRELS Journal of Information Management*, *43*(3), 265-270.

5. Dhanavandan, S and Tamizhchelvan, M. (2012) An Evaluation of E-Resources in Academic Libraries in Tamil Nadu, in *Journal of Emerging Trends in Computing and Information Sciences* 3(3) 421-426.

6. Dhanavandan, S., Tamizhchelvan M., (2012). An Evaluation of E-Resources in Academic Libraries in Tamil Nadu, *Journal of Emerging Trends in Computing and Information Sciences*, 3 (3):421-426.

7. Navalur, S. A., Balasubramani, R., & Kumar, P. A. (2012). Usage of E-resources by Faculty, Research Scholars and PG Students of Bharathidasan University: A Study. *Journal of Advances in Library and Information Science*,*1*(4), 165-172.

8. Dhanavandan, S. (2014). Knowledge and utilization of e-resources and services in Annamalai University Library. *International Journal of Information Dissemination and Technology*, 4(1), 95-100.