



条形码/二维码技术在图书馆个性化服务中的应用与实现

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摘要 针对国内图书馆中地理信息的缺失,介绍条形码/二维码在国内外的研究现状,利用Android等技术,设计并实现以图书导航服务为中心的图书馆个性化服务系统,重点介绍该系统的用户需求、设计思路与功能实现。通过对应用效果的评估,认为该系统可以极大地提升图书馆的服务效率和服务质量。

关键词: 条形码 二维码 图书馆个性化服务

Abstract: Due to the lack of geographic information in national library, the paper introduces the research of bar code and two-dimensional bar code, using Android and other technology, designs and realizes library personalized services system which is based on book navigation service. It focuses on user needs, design thought and implementation of main functions. According to the assessment of the application, the system can greatly enhance the efficiency and quality of library services.

Keywords: Bar code, Two-dimensional bar code, Library personalized service

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- [1] 第一季新浪微博用户量[EB/OL]. (2011-06-29). [2011-12-22]. http://www.news.sina.com.cn. (The Number of Users Using Sina Microblog Service in First Quarter[EB/OL]. (2011-06-29). [2011-12-22]. http://www.news.sina.com.cn.)
- [2] Tsai T M, Shih C C, Peng T C. Explore the Possibility of Utilizing Blog Semantic Analysis for Domain Expert and Opinion Mining[C]. In: *Proceedings of International Conference on Intelligent Networking and Collaborative Systems (INCOS '09)*, Barcelona, Spain. IEEE, 2009: 241-244.
- [3] 张晓玲, 张晓平, 匡平. 条形码技术在图书馆管理上的应用[J]. *图书馆*, 1991(2): 63-65. (Zhang Xiaoling, Zhang Xiaoping, Kuang Ping. The Application of Bar Code in the Library Management[J]. *Library*, 1991(2): 63-65.) 
- [4] 唐晓国. 条形码技术及其在图书馆的应用[J]. *情报理论与实践*, 2000, 23(5): 383-385. (Tang Xiaoguo. Bar Code Technology and Its Application in the Library[J]. *Information Studies: Theory & Application*, 2000, 23(5): 383-385.)
- [5] 张燕蕾. 二维码技术及其在数字图书馆中的应用探析[J]. *现代情报*, 2007, 27(10): 94-95. (Zhang Yanlei. Analysis on the Two-Dimensional Code and Its Application in the Digital Library[J]. *Modern Information*, 2007, 27(10): 94-95.) 
- [6] 周喆. 二维码在图书借还管理系统中的应用[J]. *常州工学院学报*, 2010, 23(2): 53-55. (Zhou Zhe. On the Application of Two-Dimensional Bar Code in Book Borrowing and Lending Management System[J]. *Journal of Changzhou Institute of Technology*, 2010, 23(2): 53-55.)

Service

- ▶ 把本文推荐给朋友
- ▶ 加入我的书架
- ▶ 加入引用管理器
- ▶ Email Alert
- ▶ RSS

作者相关文章

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- [7] John A, Seligmann D. Collaborative Tagging and Expertise in the Enterprise[C].In: *Proceedings of WWW 2006*.2006.
- [8] 梁永鸿,苏宁.手机二维码在图书馆OPAC中的应用与实现[J]. 无线互联科技 ,2011(3):58-59. (Liang Yonghong,Su Ning. The Application and Implementation of Mobile Two-Dimensional Bar Code in Library OPAC[J]. *Wireless Internet Technology*,2011(3):58-59.)
- [9] 张玥,朱庆华.Web2.0环境下学术交流的社会网络分析——以博客为例[J]. 情报理论与实践 ,2009,32(8):28-32. (Zhang Yue,Zhu Qinghua.The Social Network Analysis of Academic Exchange Network in the Web2.0 Environment——Take Blog as an Example[J]. *Information Studies: Theory and Application*, 2009,32(8):28-32.)
- [10] Pavlidis T. A New Paper/Computer Interface: Two-Dimensional Symbolologies[C].In: *Proceedings of the 15th International Conference on Pattern Recognition*.2000:145-151.
- [11] Khan S, Nabeel S M. OPEMS: Online Peer-to-Peer Expertise Matching System[C]. In: *Proceedings of the 1st International Conference on Information and Communication Technologies(ICICT 2005)*. 2005:148-151.
- [12] 刘军.整体网分析讲义:UCINET软件实用指南[M].上海:上海人民出版社,2009:60-65. (Liu Jun.Lectures on Whole Network Approach:A Practical Guide to UCINET[M].Shanghai: Shanghai People's Publishing House,2009:60-65.)
- [13] Hahn H I,Joung J K. Implementation of Algorithm to Decode Two-Dimensional Barcode PDF-417 [C].In:*Proceedings of the 6th International Conference on Signal Processing*.IEEE, 2002:1791-1794.
- [14] 王陆.虚拟学习社区的社会网络结构研究[D]. 兰州:西北师范大学,2009.(Wang Lu.The Research of Social Network Structure of the Virtual Learning Community[D].Lanzhou:Northwest Normal University,2009.)
- [15] Gao J Z,Prakash L,Jagatesan R.Understanding 2D-BarCode Technology and Applications in M-Commerce-Design and Implementation of A 2D Barcode Processing Solution[C]. In: *Proceedings of the 31st Annual International Computer Software and Applications Conference(COMPSAC 2007)*.2007:49-56.
- [16] Jeyaverasingam S, Yan Y H.A Mash Up Home Library Management System[C]. In: *Proceedings of the 2008 IEEE Congress on Services 2008-Part I*. Washington: IEEE Computer Society,2008:160-167.
- [17] 孙晓瑜,王荣宗.国外手机二维码技术在图书馆中的应用及启示[J]. 图书馆学研究 ,2011(6):23-25.(Sun Xiaoyu,Wang Rongzong.The Application and Inspiration of Foreign Mobile Two-Dimensional Bar Code Technology in Library[J]. *Research on Library Science*,2011(6):23-25.)
- [1] 杨勇.国际标准书号与图书条形码释义及其转换算法*[J]. 现代图书情报技术, 2005,21(10): 88-90
- [2] 郑宇.图书馆计算机网络管理系统建设的几点启示[J]. 现代图书情报技术, 2003,19(6): 42-43
- [3] 郑世珏.如何挑选图书馆常用条形码阅读器[J]. 现代图书情报技术, 1993,9(4): 29-32
- [4] 苏宜.印刷型机器可读语言——条形码[J]. 现代图书情报技术, 1993,9(4): 33-39
- [5] 嵇玥.三九条码校验位算法之改进[J]. 现代图书情报技术, 1993,9(1): 42-44