Using GIS to measure in-library book-use behavior

Jingfeng Xia

Abstract

This article is an attempt to develop Geographic Information Systems (GIS) technology into an analytical tool for examining the relationships between the height of the bookshelves and the behavior of library readers in utilizing books within a library. The tool would contain a database to store book-use information and some GIS maps to represent bookshelves. Upon analyzing the data stored in the database, different frequencies of book use across bookshelf layers are displayed on the maps. The tool would provide a wonderful means of visualization through which analysts can quickly realize the spatial distribution of books used in a library. This article reveals that readers tend to pull books out of the bookshelf layers that are easily reachable by human eyes and hands, and thus opens some issues for librarians to reconsider the management of library collections.

Full Text:
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References


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More descriptions about collection arrangements of MacKimmie Library can be found in reference 11, "GIS in the Management of Library Pick-up Books."


McGrath also excluded periodicals from his survey on in-library book use. W. E. McGrath, "Correlating the Subject of Books Taken Out of and Used Within an Openstock Library."

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DOI: https://doi.org/10.6017/ital.v23i4.9663

Refbacks

- There are currently no refbacks.
Jingfeng Xia, "GIS in the Management of Library Pick-up Books," Library Hi Tech 22, no. 2 (2004): 209-16; Jingfeng Xia, "Library Space Management: A GIS Proposal," Library Hi Tech 22, no. 4 (2004); Jingfeng Xia, "Locating Library Items by GIS Technology," (Under Review). More descriptions about collection arrangements of MacKimmie Library can be found in reference 11, "GIS in the Management of Library Pick-up Books." E. E. Nkereuwem and U. Eteng, "Operations Research in Library Management." McGrath also excluded periodicals from his survey on GIS Book Library -4- . and symbology that must be made correctly to create maps that effectively communicate the message intended by the mapmaker. scales and north arrows. or the man-made destruction of terrorist attack.and shows how GIS processes can be incorporated into each. font choices. major disasters. Brewer Publisher: ESRI Press. (Editor) Publisher: ESRI Press. projections. 2001. an online tool designed to help people select good colour schemes for maps and other graphics. 2003. These database designs are intended to help GIS users rapidly become productive with the geodatabase and to How important is the land use mix measure in understanding walking behaviour

How important is the land use mix measure in understanding walking behaviour? Results from the RESIDE study. Energy expenditure of interruptions to sedentary behavior Energy expenditure of interruptions to sedentary behavior. This has come about, in part, because of advances in methodological tools such as Geographic Information Systems (GIS). GIS has made the procurement of data related to the built environment easier and given researchers the flexibility to create a new generation of environmental exposure measures such as the travel time to the nearest supermarket or calculations of the amount of neighbourhood greenspace.