

From bookshelves via virtual shelves to ruza breto, our private online library – an outline of an intelligent personal repository system*

Gyöngyi Bujdosó

Faculty of Informatics, University of Debrecen
bujdosog.yongyi@inf.unideb.hu

Abstract

Ruza breto is the name of a smart bookshelf in Esperanto. We use this expression for identifying an intelligent online service that provides thematic and personalized online repository for its users. This service is designed for the VirCA virtual intelligent space [1], where our ruza breto can collect and provide to its users items belonging to a given topic from online libraries and other certified repositories; it can remark and store the contents approved by the user. This system can create patterns of user behaviors and can learn its users' behavior and range of interests, what kind of information they approved. It can use log file information ([2], [3]), semantic analysis ([4]) and of course neural networks, as well. In this presentation we describe the design of this intelligent, online system that can provide a personalized repository of digital documents and other digital materials in detail: how it would work, and what kind of services users expect from such a ruza breto during their work.

Keywords: intelligent online repository of digital documents, ruza breto, online libraries, personal library service, VirCA

MSC: 68U35, 68M11

References

- [1] P. Galambos and P. Baranyi, "VirCA as Virtual Intelligent Space for RT-Middleware," in 2011 IEEE/ASME International Conference on Advanced Intelligent Mechatronics (AIM), Budapest, Hungary, 2011, pp. 140–145.
- [2] Gy. Bujdosó, M. Csernoch, M. Borbély, E. Dani, M. Némethi-Takács K. Koltay and L. Balázs, "LibSearchNet: Library Log File Initiatives – as a Part of Semantic Library Interface Development for the VirCA 3D Virtual Collaboration Area" 4th IEEE International Conference on Cognitive Infocommunications (CogInfoCom) 2013, to appear.
- [3] R. V. Priya and A. Vadivel, "User Behaviour Pattern Mining from Weblog." International Journal of Data Warehousing and Mining, 8(2), 1–22, April-June 2012.
- [4] Nikhil Kumar Singh, Deepak Singh Tomar and Bhola Nath Roy, "An Approach to Understand the End User Behavior through Log Analysis." Int. J. Computer Appl., 5(11), 27–34, 2010.

* The research was supported partly by the TÁMOP-4.2.2.C-11/1/KONV-2012-0001 project. The project has been supported by the European Union, co-financed by the European Social Fund. The research was supported partly by the Hungarian Scientific Research Fund under Grant No. OTKA K-105262.