

DESIGNING AN INFORMATION RETRIEVAL SYSTEM FOR LEARNING EXPERIENCES IN THE VIRTUAL ENVIRONMENTS

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Abstract

In the 21st century, learning experiences are mainly materialized on virtual environments. During learning activities, individuals frequently need to remember their own previous experiences related to the topics, which they are working on, in virtual environments. In this study a life logging system, which enables individuals to access their previous experiences on virtual environments via related words and sentences they remember, is designed and developed. With this aim, screen shots and screen texts from all the computers used by the individual are captured every 30 seconds and transferred via a cloud service and then put together. After that, files belonging to screen texts are indexed via a search engine, with the help of that, files which contain key words or sentences can be accessed on time scale axis. So the frequency of an individual's interest on a word or a phrase can be determined yearly, monthly, daily and hourly and access to the screenshots which contain these words or phrases is provided. In the last part of the study, developed life logging system is examined according to benefits provided by life loggings and described as 5Rs, possible using styles and future developments are discussed.

Keywords: Life logging, learning experience, information retrieval system, capturing texts from screen, temporal desktop search engine.