

Title: An Interface to Retrieve Personal Memories Using an Iconic Visual Language

Author(s): Jesus, Rui ^[1]; Romao, Teresa; Correia, Nuno

Source: Transactions on Edutainment V **Book Series:** Lecture Notes in Computer Science

Volume: 6530 **Pages:** 224-239 **Published:** 2011

Conference: 5th International Conference on Digital Media and Digital Content Management (DMDCM 2010) **Location:** Chongqing, Peoples Republic of China **Date:** Dec 18-20, 2010

Document Type: Proceedings Paper

Language: English

Abstract: Relevant past events can be remembered when visualizing related pictures. The main difficulty is how to find these photos in a large personal collection. Query definition and image annotation are key issues to overcome this problem. The former is relevant due to the diversity of the clues provided by our memory when recovering a past moment and the later because images need to be annotated with information regarding those clues to be retrieved. Consequently, tools to recover past memories should deal carefully with these two tasks. This paper describes a user interface designed to explore pictures from personal memories. Users can query the media collection in several ways and for this reason an iconic visual language to define queries is proposed. Automatic and semi-automatic annotation is also performed using the image content and the audio information obtained when users show their images to others. The paper also presents the user interface evaluation based on tests with 58 participants.

Author Keywords: Personal Memories; User Interfaces; Visual Languages; Image Retrieval

Reprint Address: Jesus, R (reprint author) - Inst Super Engn Lisboa, Multimedia & Machine Learning Grp, Rua Conselheiro Emidio Navarro 1, Lisbon, Portugal

Addresses:

[1] Inst Super Engn Lisboa, Multimedia & Machine Learning Grp, Lisbon, Portugal

E-mail Addresses: rjesus@deetc.isel.pt; tir@di.fct.unl.pt; nmc@di.fct.unl.pt

Publisher: Springer-Verlag Berlin

Publisher Address: Heidelberger Platz 3, D-14197 Berlin, Germany

ISSN: 0302-9743

ISBN: 978-3-642-18451-2

Citation: JESUS, Rui; ROMAO, Teresa; CORREIA, Nuno - An Interface to Retrieve Personal Memories Using an Iconic Visual Language. Transactions on Edutainment V. ISSN 03202-9743. ISBN 978-3-642-18451-2. Vol. 6530 (2011), p. 224-239.