

SINAI at VideoCLEF 2008

José M. Perea-Ortega, Arturo Montejo-Ráez, M. Teresa Martín-Valdivia,
Manuel C. Díaz-Galiano, L. Alfonso Ureña-López
SINAI Research Group. Computer Science Department. University of Jaén
Campus Las Lagunillas, Ed. A3, E-23071, Jaén, Spain
{jmperea, amontejo, maite, mcdiaz, laurena}@ujaen.es

Abstract

This paper describes the first participation of the SINAI research group in the VideoCLEF 2008 track. We have only submitted runs for the classification task on Dutch and English languages. Our approach has consisted in the use of a particular Information Retrieval system as classification architecture, using the speech transcriptions as textual queries and generating textual corpus for each topic class. In order to generate this textual corpus we have used the Google¹ search engine. The experiments show that an IR system can perform well as classifier of multilingual videos, using their speech transcriptions and obtaining good results.

Categories and Subject Descriptors

H.3 [Information Storage and Retrieval]: H.3.1 Content Analysis and Indexing; H.3.3 Information Search and Retrieval; H.3.4 Systems and Software

General Terms

Measurement, Performance, Experimentation

Keywords

Content-based retrieval, Multilingual video classification, Information Retrieval, VideoCLEF

1 Introduction

This paper describes the first participation of the SINAI² research group from University of Jaén in the VideoCLEF 2008 campaign. VideoCLEF is a new track for Cross Language Evaluation Forum (CLEF) 2008 and it aims to develop and evaluate tasks in processing video content in a multilingual environment. The overall objective is to combine and extend these subtasks and perform completely automatic generation of RSS feeds specific to a particular information need and personalized to a particular language preference. The main task for VideoCLEF 2008 involves assigning topic class labels to videos of television episodes³.

The aim of our first participation in VideoCLEF has been the study of the problem of this task, and the development of a basic architecture which approaches it. We have some experience in the field of multimedia video retrieval [1] and in image retrieval [2, 3, 4].

¹<http://www.google.com>

²<http://sinai.ujaen.es>

³<http://ilps.science.uva.nl/Vid2RSS/Vid2RSS08/Vid2RSS08.html>