Browsing and searching in local multimedia collections

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Some issues seen in townships

- Water, housing, electricity
- Transport
- Communication
- Education
- Safety
- Security
- Access to jobs

Makes you wonder where on this list of needs “Multimedia Information Retrieval” features... Yet if my house burnt down (and everyone was safe) I would rescue my photo album
Built in 1685 by Dutch immigrants this was the heart of the first vineyard in Africa, located near what is today known as Cape Town...
New search types

<table>
<thead>
<tr>
<th>text</th>
<th>image</th>
<th>location</th>
<th>speech</th>
<th>sound</th>
<th>humming</th>
<th>motion</th>
<th>query</th>
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</tbody>
</table>

Example

- conventional text retrieval
  - hum a tune and get a music piece
  - type "floods" and get BBC radio news
Automated annotation

Automated: water buildings city sunset aerial

[with Yavlinsky et al CIVR 2005]
[with Yavlinsky SPIE 2007]
[with Magalhaes CIVR 2007, best paper]

[Corel Gallery 380,000]
<table>
<thead>
<tr>
<th>The good door</th>
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</tr>
</tbody>
</table>
The bad wave
The ugly

iceberg
Connect similar objects

focus

Structure

[with Heesch ECIR 2004, CIVR 2005]
[PhD thesis Heesch, nominated for best UK thesis 2005]

Colour

Text
Browsing example

- TRECVID topic 102: Find shots from behind the pitcher in a baseball game as he throws a ball that the batter swings at
[dataset TRECVID 2003]
Image ID: 1263
Collection: Video
Resolution: 352 x 264
Filename: TRECVID2003_138/shot138_210_RKF.jpg

Keywords: FOR ONE WIN OVER THE SHARKS IN THE MAJORS THE BRAVES BEAT THE