

CENTRE FOR DIGITAL VIDEO PROCESSING

DUBLIN CITY UNIVERSITY
Glasnevin, Dublin 9, Ireland
<http://www.cdvp.dcu.ie/>

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At the Centre for Digital Video Processing we research and develop techniques to support content-based navigation through large collections of digital video information. This includes browsing, playback, searching, filtering, linking and summarising video information in a personalised and tailored fashion.

Research Philosophy Our philosophy is to incorporate our research into a single demonstration system, which we call Físchlár which we deploy as a working system with real users. This helps to focus our research into useful and practical directions.

Size of the Research Centre The centre presently comprises 6 academic Faculty, 7 full-time post-doctoral researchers, and 26 research students, all externally funded. Previously, 15 other post-doctoral researchers, 12 research students, 28 summer interns and 42 final year undergraduate students have been working with us. The Centre is a collaboration between the School of Computing and the School of Electronic Engineering.

Research Output Several graduated research students (PhD and Masters) and 298 peer reviewed papers since 2000. We are also very active and leading participants in the US TRECVID activity, which benchmarks the effectiveness of information retrieval from digital video libraries.

Research Directions As well as our over-arching goal of developing context-aware, effective access to large video libraries, we are currently pursuing two important specific directions, namely video access from wireless mobile devices, and object-based indexing and access to video content.

The Físchlár System

Number of users Over 2,000 registered users on the DCU campus

Materials Available for Searching and Browsing Físchlár-TV records broadcast TV from any of 8 terrestrial broadcast channels and Físchlár-News records the RTE1 main evening news every day and automatically segments news story boundaries to provide story-based news searching/browsing to its users. Físchlár-Nursing provides access to educational videos for our School of Nursing. mFíschlár-News provides personalised access to a news archive from a mobile device.

Volume of content 600 hours, which can be streamed to 200+ simultaneous users on campus.

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FUNCTIONAL DIAGRAM OF THE FÍSCHLÁR SYSTEM

