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Abstract

We present the research and development status of two MPEG-7 indexing/search systems under development at the Computer Research Institute of Montreal (CRIM). The first (called ERIC-7) targets content-based encoding of still images and is mainly designed to experiment with the various aspects of the visual MPEG-7/XML schema with the help of analysis and exploration tools. The interface allows navigating graphically among the various descriptors in the XML files and through interactive UML graphics. The second (called MADIS) aims at providing a practical audiovisual MPEG-7 indexing/retrieval tool, within the framework of a light architecture. MADIS is designed to (1) be fully MPEG-7 compliant, (2) address both encoding and search, (3) combine audio, speech and visual modalities and (4) have search capability on the Internet. MADIS currently targets content-based indexing of documentary films.

Keywords: MPEG-7, video processing, multimedia systems, content-based image retrieval, audio-visual indexing